-Index-

JOURNAL OF APPLIED CHEMISTRY OF THE USSR

Volume 31, 1958

AUTHOR INDEX

1957

Adaskin, E. M., N. I. Ziminova, B. L. Lebedev and S. V. Pavlov, Hydrogenation of Glucoses in Presence of Granulated Raney Nickel Catalyst Under Flow Conditions - 582

Adaskin, E. M., B. L. Lebedev, and N. I. Ziminova, Hydrogenation of Glucose in Presence of Powdered Raney Nickel Catalyst in Flow - 886

Alabyshev, A. F., M. F. Lantratov and L. I. Sokolova, Electrical Conductivity of the System NaOH—Na_2CO_3—NaCl -1737

Aleeva, E. V., see Sinitsyn, V. V. - 1191

Aleksandrov, G. P., and V. S. Tikhonova, Production of a New Sulfate Fertilizer, Kaluszite, from Native Kainites - 1445

Al'tshuler, O. V. and F. F. Kharakhorin, Investigation of the Recovery of Selenium from Alkaline Solutions - 266

Amirova, S. A., see Pechkovskii, V. V. - 1466

Ananich, N. I. and L. A. Grechanik, The Problem of Formation of a Semiconducting Film in Lead-Bismuth Glasses During Hydrogen Treatment - 556

Andreev, K. K., Decomposition of Nitroglycerin at High Temperatures - 470

Antipenko, G. L., E. S. Beletskaia, A. G. Krylova, Variation of the Density of Pure Nitric Acid with the Temperature -847

Antipin, L. N., S. F. Vazhenin and Ia. A. Sal'nikov, Influence of Aluminium on the Wetting of Graphite by Cryolite—Alumina Melts -1091

Antokol'skaia, M. Ia., Study of Polymorphism of Cacao Butter - 259

Antropov, L. I., see Petrenko, A. T. - 940

Antropov, L. I., see Chechel', P. S. - 1846

Antropov, L. I., V. P. Grigor'ev, and A. T. Petrenko, Use of the Results of Electrocapillary Determinations in Studies of Acid-Corrosion Inhibitors for Metals - 1497

Antropov, L. I. and A. T. Petrenko, Corrosion of Iron and Zinc in 1 N H_2SO_4 - 1839

Appen, A. A., see Galant, E. I. - 1727

Arakelov, A. G. , see Shreider, A. V. - 1660

Arbuzova, I. A., S. N. Ushakov, and E. N. Rostovskii, Component Ratio in the Synthesis of Vinyl Acetate by Heterogeneous Catalysis - 1691

Arlozorov, D. G., see M. Kh. Gluzman - 647

Atroshchenko, V. I., and V. M. Kaut, Kinetics of the Absorption of Nitrogen Oxides in Concentrated Nitric Acid - 340

Averbukh, T. D., M. A. Serebrennikova, and N. D Maslova, Influence of the Composition and Amount of Filler on the Oxidative Roasting of Furnace Charges in Dichromate Production - 824

Avgustinik, A. I., see Azimov, I. - 1599

Avgustinik, A. I. and V. M. Loginov, Acceleration of Porcelain Production -1140

Azarov, K. P. and V. V. Balandina, Solubility of Iron Oxides in Ground-Coat Enamels for Steel - 292

Azarov, K. P, and E. M. Chistova, Phosphate Enamels - 1602

Azimov, I., and A. I. Avgustinik, The Use of Dolomite as an Opacifier - 1599

Babin, E. P., see Pliusnin, V. G. - 1592

Babitskaia, S. M., see Tseitlin, Kh. L. - 76

Baier, K., see Perekalin, V. V. - 661

Balandina, V. V., see Azarov, K. P. - 292

Balezin, S. A. and I. V. Nikol'shii, The Occurrence of Hydrogen Embrittlement of Steel in Aqueous Solutions of Hydrogen Sulfide - 1171

Baranova, A. I., Partial Vapor Pressure of Sulfuric Acid and Water Over Sulfuric Acid Solution - 161

Baranova, N. A., see Bolotov, B. A. - 247

Bardyshev, I. I., Kh. A. Cherches and L. I. Ukhova, A New Method for the Isolation of Levopimaric Acid from Mixtures of Resin Acids - 502

Bardyshev, I. I., A. G. Sokolov and O. I. Cherniaeva, Isolation of Pure Dextropimaric Acid from P. Sylvestris Oleoresin - 595

Bardyshev, I. I. and Kh. A. Cherches, Resin Acids of the Oleoresin from the Crimean Pine (Pinus pallasiana Lamb.) - 1114

Bardyshev, I. I. and Kh. A. Cherches, Neoabietic Acid — A Primary Acid of the Oleoresin of Picea Excelsa Link -1263

Bardyshev, I. I. and L. V. Roman, Study of the Composition of the Turpentine and the Properties of Rosin from the Oleoresin of the Sudak Pine (Pinus Pithyusa Var. Sankewiczii Suk., Pinus Stankewiczii Fom.) - 1754

Barzakovskii, V. P., see Torpov, N. A. - 958

Beletskaia, E. S., see Antipenko, G. L. - 847

Beliaev, A. I. and L. A. Firsanova, Influence of Aluminum on the Anode Effect in the Electrolysis of Cryolite—Alumina Melts - 1347

Beliaev, G. I., Effect of Small Additions of B_2O_3 on Certain Properties of Ground-Coat Enamels - 289

Beliaev, G. I., and N. F. Smakota, Influence of Frit Crystallization on the Properties of Groun-Coat Enamel - 1730

Beliaev, G. I. and N. F. Smakota, Effect of Ferric Oxide on the Properties of Borate and Boron-Free Ground-Coat Enamels - 1783

Beloborodov, V. V., Study of the Extraction of Vegetable Oils from Oil Cakes - 1565

Belostotskaia, I. L., see Moldavskii, B. L. - 1875

Beneslavskii, S. I., and L. A. Pashkevich, Some Comments on the Paper by V. N. Krylov and A. S. Polubelova: "The Dehydration of Bauxites of Different Origins" (J. Appl. Chem. 29, 5. 698-704, 1956) - 505

Bergman, A. G. and I. P. Vyrodov, The Hardening of Magnesium Oxychloride Cements - 16

Bezuglyi, V. D. and V. N. Dmitrieva, Polarographic Determination of Benzoyl Peroxide in Certain Plastics - 283

Bobkova, E. I., see Golendeev, V. P. - 1708

Bogareva, K. G., see Golendeev, V. P. - 1708

Bogatova, N. F., see Zosimovich, D. P. - 416

Bogatskii, D. P. and G. G. Urazov, Methods of Chemical Beneficiation and Conversion of Non-beneficiating Refuse Nickel Ores (Trailings) - 196

Bogatskii, D. P. and G. G. Urazov, the Chlorine Method for the Composite Treatment of Silicate Ores of Metals of the Iron Group -313

Bogdanov, K. A., Reaction of Salicylaldehyde with Acetic Anhydride in Presence of BF_3. - 1425

Bogdanova, M. V., see Bolotov, B. A. - 247

Bogoiavlenskii, A. F. and A. P. Vedernikov, Effects of Solution Temperature and Concentration on the Content of Anions from the Bath Electrolyte in an Anodic Oxide Film, Determined by the Labeled-Atom Method -294

Bolotov, B. A., N. A. Baranova and M. V. Bogdanova, Catalytic Decomposition of Metameric Esters — Ethyl Butyrate and Butyl Acetate - 247

Bolotov, B. A., B. N. Dolgov, K. P. Katkova, and L. S. Ivanova. Catalytic Methods for the Production of Methyl Isobutyl Ketone - 892

Bol'shakov, A. G., see Gasiuk, G. N. - 1013

Bol'shakov, A. G., see Gasiuk, G. N. - 1778

Borisenko, V. V., see Shostakovskii, M. F. - 944

Borisenko, V. V., see Shostakovskii, M. F. - 1416

Borkova, L. V., see Kuz'minskii, A. S. - 635

Borodkin, V. F. Synthesis of Phthalocyanine from Phthalonitrile - 283

Brachikov, S. G., see Esin, O. A. - 1826

Brainina, Kh. Z., see Vasserman, I. M. - 1605

Bretsznajder, S. Application of the Theory of Similarity to Certain Processes in Chemical Technology - 1623

Brodskaia, N. I., M. I. Gerber and S. S. Iordan, Effect of Additions of Certain Cations and Buffer Solutions on the Regeneration of Arsenical Soda Liquors - 10

Brun-Tsekhovoi, A. R., Regulation of the Flow of Granular Materials by the Injecting Action of a Gas Stream

Budnikov, P. P., IV th Conference on the Chemistry and Technology of Silicates of the Hungarian Academy of Sciences and the Scientific-Technical Society of Building Materials - 956

Budnikov, P. P. and Mchedlov-Petrosian, O. P., Conference on Modern Methods of Reseach in the Field of Silicates and Construction Materials - 1612

Buianova, A. N., see Marchenko, N. A. - 1511

Bukreeva, L. M., see Sergeev, P. G. - 1396

Bulygin, B. M., Chemical and Mechanical Destruction of Graphite Anodes under Various Conditions of Hydroxyl Ion (Water) Discharge - 1821

Burmakin, N. M., see Kogan, L. M. - 495

Burmakin, N. M., see Kogan, L. M. - 1585

Burmistrenko, L. A., see Rus'ianova, N. D. - 221

Byk, S. Sh., see Kirsanova, R. P. - 1610

Bystrov, A. N., see Rozman, B. Iu. - 1089

Byzov, B. A., see Dolgopol'skii, I. M. - 1534

Byzov, B. A., see Dolgopol'skii, I. M. - 1702

Checkel', P. S. and L. I. Antropov, Electrochemical Method for Production of Sodium Formate from Carbon Dioxide and Sodium Amalgam - 1846

Chepelevtskii, M. L., see Khamskii, E. V. - 972

Cherches, Kh. A., see Bardyshev, I. I. - 502

Cherches, Kh. A., see Bardyshev, I. I. - 1114

Cherches, Kh. A., see Bardyshev, I. I. - 1263

Cherkasova, A. A., see Golovchinksaia, E. S. - 1230

Cherkinskaia, S. L., see Iskol'dskii, I. I.- 22

Chernenko, V. I., see Loshkarev, M. A. - 236

Cherniaeva, O. I., see Bardyshev, I. I.

Cherniak, N. V., see Kogan, L. M. - 495

Chernobai, A. V., see Iukhnovskii, G. L. - 1081

Chertkov, Ia. B., Oxidation of Monoolefinic Hydrocarbons - 457

Chertkov, Ia. B. and V. N. Zrelov, Influence of Sulfur Compounds on the Service Properties of Hydrocarbon - 1369

Chertkova, S. I., see, Pliusnin, V. G. - 1592

Chertov, V. M., see Makhorin, K. E. - 630

Chistiakov, A. N., Thermal Decomposition of Middle-Temperature Coal Pitch - 131

Chistova, E. M., see Azarov, K. P. - 1602
Chudakov, M. I., see Skrynnik, I. V. - 644
Chukhlova, L. K., see D'iachkov, G. S. - 309
Chumakov, S. Ia., see Kozlov, N. S. - 134

Danilov, S. N, N. S. Sidorova-Tikhomierova and O. M. Kulakova, Emulsion Xanthation - 236
Davankov, A. B. and V. M. Laufer, and N. E. Razgil'deev, Production of Trial of the Extraction of Gold from Spent Electrolytic Solutions by Means of Ion Exchange - 479
Davtian, N. A., see D'iakova, M. K. - 1246
Davydov, Iu. A. see Rozman, B. Iu. - 1089
Deviatykh, G. G., A. D. Zorin and N. I. Nikolaev, Study of the Separation of Carbon and Oxygen Isotopes by Fractional Distillation of Carbon Monoxide, Methane, and Molecular Oxygen - 356
D'iachkov, G. S. and L. K. Chukhlova, Peat Furfural - 309 BC
D'iakova, M. K. and N. A. Davtian, Investigation of the Compostion of Phenols from the Thermal Liquefaction of Peat - 1246
Dmitrieva, N. S., see Gaburina, R. K. - 1217
Dmitrieva, V. N., see Bezuglyi, V. D. - 283
Dobler, Z. F., see Dolgopol'skii, I. M. - 900
Dobler, Z. F., see Dolgopol'skii, I. M. - 1224
Dobroliubov, V. V., see Romanov, V. V. - 215
Dobromil'skaia, I. M., see Dolgopol'skii, I. M. - 1534
Dobromil'skaia, I. M., see Dolgopol'skii, I. M. - 1702
Dobrynina, O. N. , see Goldendeev, V. P. - 1708
Dogadkina, L. A., see Kliuev, V. N. - 113
Dolgoplosk, B. A. and D. Sh. Korotkina, Influence of Iron Salts on the Kinetics of the Reaction Between Polyethylene Polyamines and Hydroperoxides, and Use of this Reaction for Initiation of Polymerization
Dolgov, B. N., see Bolotov, B. A. - 892
Dolgopol'skii, I. M. and Z. F. Dobler, The Peroxides of Vinylacetylene -- 900
Dolgopol'skii, I. M., Z. F. Dobler, A. P. Iashina, and P. N. Trofimova, Polymerization of Vinylacetylene - 1224
Dolgopol'skii, I. M., A. L. Klebanskii, and D. M. Krasinsaia, Polymerization of Divinylacetylene - 1385
Dolgopol'skii, I. M., I. M. Dobromil'skaia, and B. A. Byzov, Synthesis of Fluoroprene over a Solid Catalyst - 1534
Dolgopol'skii, I. M., I. M. Dobromil'skaia, and B. A. Byzov. Hydrofluorination of Vinylacetylene with a Suspended Catalyst - 1702
Drinberg, A. Ia., B. M. Fundyler and A. M. Frost, Preparation and Investigation of Styrene – Methyl Acrylate Copolymers - 241
Drinberg, A. Ia., B. M. Fundyler and A. M. Frost, Preparation and Investigation of Styrene-Methacrylic Acid Copolymers - 1071
Drozdov, B. V., Contact Reduction of Metals from Solution - 202
Drozdov, B. V., Conditions of the Contact Reduction of a Metal from Solution - 1041
Drozin, N. N. and N. I. Vodolazhenko, Conversion of Calcium Sulfate Hemihydrate into the Dihydrate in Spent Liquors of the Solvay Process - 990
Dytnerskii, Iu., see Kafarov, V. V. -616

Efremova, O. G., see Glikman, S. A. - 1077
Ekster, Ia. I., N. I. Putokhin's Organic Chemistry. State Agricultural Literature Press, Moscow, 1956 - 146
Egorov, A. P., D. A. Epshtein's "Fundamentals of Chemical Technology," Academy of Pedagogical Sciences Press, Moscow, 1957 - 144
Eliseeva, V. I. and E. V. Kuz'mina, Mechanical Properties of Casein Films - 1234
Eremina, I. N., see Ozerov, A. M. - 1052
Ermolaeva, T. A., see Kiselev, V. S. - 100
Erofeev, B. V. and N. I. Mitskevich, Role of the Phase Transition NH_4NO_3(IV) NH_4NO_3 (III) in the Caking of Ammonium Nitrate - 1796
Esin, O. A. , see Musikhin, V. I. - 162
Esin, O. A., S. I. Popel', S. G. Brachikov, V. N. Razumov, and I. M. Plotnikov, Desulfurization of Steel in an Induction Furnace by Means of Direct Current - 1826
Esin, Iu, O. and P. V. Gel'd. Reduction of Zinc Oxide by Carbon - 982
Esin, Iu. O., and P. V. Gel'd. Direct Reduction of Chromic Oxide - 1273
Evzlina, B. B., see Postnikov, N. N. - 1453

Faiman, V. G., see Makolkin, I. A. - 1665
Falicheva, V. I., see Levin, A. I. - 569
Farberov, M. I., see Kriukov, S. I. - 462
Fastovskii, V. G., A. E. Rovinskii, and Iu. V. Petrovskii, Production of Pure Xenon - 3
Fedosova, V. M., see Golovchinskaia, E. S. -1230
Fedot'ev, N. P., and Iu. M. Pozin. Effect of Surface-Active Substances on the Mechanical Properties of Electrolytic Deposits - 406
Fedot'ev, N.P. and V. N. Varypaev, Behavior of the Nitrate Ion at a Pt Anode - 422
Fedot'ev, N. P. and I. Kosha-Shomodi, Study of the Rate of Solution of the Oxide Film on Aluminum - 487
Figel'man, M. A. and A. V. Shreider, Hydrogen Embrittlement of Steel in Cathodic Treatment - 1175

Filatov, I. G., I. I. Revzin's Plastics in Medicine, State Medical Press, Moscow, 1957 - 142
Filatov, I. G., Review of A. K. Vardenburg's "Plastics in the Electrical Industry". Gosenergoizdat, Moscow, 1957 - 1119
Firsanova, L. A., see Beliaev, A. I. - 1347
Flis, I. E., Influence of the pH of the Medium and the Temperature on the Proportions of Active Oxidizing Agents in Hypochlorite Solutions in Chlorination and Bleaching Processes - 1183
Frantsevich-Zabludovskaia, T. F, and A. I. Zaiats, Electrochemical Production of Alloys of Nickel with Molybdenum or Tungsten from Aqueous Ammoniacal Electrolytes - 224
Freilin, B. G, Kinetics of the Oxidative Conversion of Hydrocarbons in the Liquid Phase - 869
Frenkel', M. G., see Postnikov, N. N. -1453
Frost, A. M., see Drinberg, A. Ia. - 241
Frost, A. M., see Drinberg, A. Ia. - 1071
Fu, Tsziui-fu, Approximate Calculation Method for Batch-Rectification Columns - 518
Fundyler, B. M., see Drinberg, A. Ia. - 241
Fundyler, B. M., see Drinberg, A. Ia., - 1071

Galant, E. I. and A. A. Appen, Aluminate — Borate Anomaly of the Optical Properties of Silicate Glasses - 1727
Gamali, I. V., see Loshkarev, M. A. 236
Ganz, S. N., Sorption of Nitrogen Oxides by Solid Sorbents -128
Ganz, S. N. and M A. Lokshin, Intensified Removal of Hydrogen Sulfide from Coke-Oven Gas in Rotary High-Speed Absorbers - 185
Ganz, S. N., Adsorption of Nitrogen Oxides by Aluminosilicate Sorbent - 349
Gaponenkov, T. K. and Z. I. Protsenko, The Properties of Sunflower Pectin in Relation to the Method of Isolation - 305
Garanin, I. L., see Shuikin, N. I. - 1717
Garanin, I. L., see Shuikin, N. I. -1757
Gasiuk, G. N., A. G. Bol'shakov, A. V. Kornev and P. Ia. Krainii, Mass-Transfer Coefficients in the Liquid Phase - 1013
Gasiuk, G. N., P. Ia. Krainii, A. G. Bol'shakov, and A. A. Kortnev, Dependence of the Carbonation Process on the Partial Pressure of Carbon Dioxide in the Incoming Gas and on the Temperature - 1778
Gavurina, R. K., P. A. Medvedeva and Sh. G. Ianovskaia, Cast Unsaturated Polyester Resins Hardening in the Cold - 106
Gavurina, R. K., A. V. Mitrofanova, and N. S. Dmitrieva, The Use of Dienols as "Hardening" Accelerators for Unsaturated Polyester Resins - 1217
Gaziev, G. A., Ia. D. Zel'venskii and V. A. Shalygin, Liquid-Vapor Equilibrium in the Binary Mixtures Ethyl Alcohol-Isopropyl Alcohol and Carbon Disulfide - Methyl Iodide - 1210
Gel'd, P. V., see Esin, Iu. O. - 982
Gel'd, P. V., see Esin, Iu. - 1273
Gel'perin, N. I., see Matveev, I. G. - 856
Gel'perin, N. I., N. G. Krokhin and E. N. Kiseleva, Extraction from Solutions by Condensing Solvent Vapors - 1020
Gel'perin, N. I., I. G. Matveev, and K. V. Vil'shau, Absorption of SO_2 and CS_2 by Certain Hydrocarbons of the Diphenylmethane Series - 1309
Gerasimov, V. V., Calculation of Electrochemical Protection with Field Interaction inthe Electrolyte Taken into Account -936
Gerasimov, V. V., Calculation of the Current Given Off by a Protecting Anode - 1102
Gerber, M. I., see Brodskaia, N. I. - 10
Gerber, M. I., V. P. Teodorovich, and A. D. Shusharina, Investigation of the Rate of Absorption of Hydrogen Sulfide by Arsenical Soda Liquors - 1478
Gerber, M. I., B. P. Teodorovich, and A. D. Shusharina, Investigation of the Rate of Absorption of Hydrogen Sulfide by Arsenical Soda Solution - 1612
Glezin, V. M., Separation of Tannins Into Fractions By Means of Adsorbents - 1554
Glikman, S. A., O. G. Efremova, I. K. Kosyreva and A. I. Somova, Conditions for the Production of Thermostable Ethylcellulose - 1077
Globus, R. L., see Matveev, I. G. - 856
Gluzman, M. Kh. and I. B. Levitskaia, Study of the Reaction of Solid p-Carbomethoxysulfanilyl Chloride with Solid 2-Aminothiazole and its Hydrochloride - 276
Gluzman, M. Kh., and D. G. Arlozorov, Study of the Effect of Increased Pressure on the Course of Reactions Between Solid Anhydrides and Amines - 647
Goftman, M. V., see Rus'ianova, N. D. - 221
Golendeev, V. P., K. G. Bogareva, E. I. Bobkova, and O. N. Dobrynina, Influence of Used Catalyst on the Acidity Increase of Hydrogenated Fat - 1708
Golovchinskaia, E. S., The Reaction of Formation of 8-Trichloromethylcaffeine - 907
Golovchinskaia, E. S., V. M. Fedosova, and A. A. Cherkasova, Preparation of 8-(Trichloromethyl)-Theobromine and Theobromine -1230
Goncharuk, S. P., see Iakubchik, A. I. - 1683
Gorbanev, A. I., Thermodynamic Analysis of Experimental Data on the Production of Sodium Carbonate from Sodium Sulfate - 1094

Gorbanev, A. I., Experimental Investigation of the Gas Reduction of Na_2SO_4 to Na_2CO_3 in the Shaft Furnace -1256
Gorchakov, N. D, and I. I. Pogodin, Desorption of Solvents From Activated Carbon by Means of Inert Gases - 55
Goriaev, M. I., R. N. Sazonova, and I. M. Shabanov, Determination of Alkaloids in Ephedra by Distillation in Superheated Steam - 274
Grachev, I. V., see Klebanskii, A. L. - 1858
Grechanik, L. A., see Ananich, N. I. - 556
Grechanik. L. A., Effect of the Composition of Glasses on the Influence of Me_2O and Al_2O_3 Oxides on Their Electrical Conductivity - 1154
Grigor'ev, G. S., see Pozin, M. E. - 167
Grigor'ev, V. P. see Antropov, L. I.- 1497
Grinina, V. V., see Krotov, I. V. - 29
Gritsenko, A. N., see Zhuravlev, S. V. - 652
Guzhavina, V., see Sharkov, V. I. -1749

Iakubchik, A. I., S. K. Zykova, and S. P. Goncharuk, Study of the Chemical Structure of SKB Sodium Divinyl Rubber (Made by the Rod Process) - 1683
Ianishevskii, A. V., see Pavlushenko, I. S. -1334
Ianishevskii, A. V.and I.S. Pavlushenko, Determination of the Interphase Area in Emulsions -1205
Ianitskii, I. V. and B. B. Stul'pinas, Electrodeposition of Manganese with Increased Current Efficiency - 243
Ianovskaia, Sh. G., see Gavurina, R. K. - 106
Iashina, A. P., see Dolgopol'skii, I. M. - 1224
Iastrebova, L. S. and V. S. Molchanov, Influence of Various Factors on the Structure of Surface Films on Silicate Glasses - 1615
Ignatova, N. P., see Kogan, L. M. - 495
Indenbom, V. L. and V. I. Sheliubskii, Determination of the Softening Temperature of Glass by the Method of Drawing a Horizontal Thread - 621
Iordan, S. S., see Brodskaia, N. I. - 10
Ipat'ev, V. V., see Skop, S. L. - 1884
Ipat'ev, V. V., V. I. Tikhomitrov, and N. F. Soboleva, Investigation of the Rate of Absorption of Hydrogen Sulfide by Arsenical Soda Liquors — 1472
Ipat'ev, V. V., O. P. Merkulova, and V. P. Teodorovich, Investigation of the Decarburization Rate of 30 KhMA Steel Pipes in a Hydrogen Medium -1880
Isaguliants, V. I. and I. S. Maksimova, Conversion of β-Chloro Ethers in Presence of Metals - 1578
Iskol'dskii, I. I. and S. L. Cherkinskaia, Chromium Boride and Its Use in Hard Facing Alloys - 22
Iukhnovskii, G. L. N. V. Prilutskaia and A. V. Chernobai, Copolymerization of Cyclopentadiene with Vegetable Oils - 1081
Iur'ev, V. I., see Skurkhin, G. M. - 920

Ivanova, A. A., Production of Film Formers Based on Nondrying and Semidrying Oils - 265
Ivanova, L. S., see Bolotov, B. A. - 892
Ivanovskii, F. P., see Korsh, M. P. - 976

Kafarov, V. V., Calculation of Mass-Transfer Processes - 179
Kafarov, V. V. and S. A. Zhukovskaia, Investigation of the Fundamental Performance Characteristics of the Injection Extractor and Comparative Efficiency of Extractors - 364
Kafarov, V. V. and Iu. I. Dytnerskii, Minimum Equivalent Packing Height (HTU) in Packed Absorption, Rectification and Extraction Columns- 616
Kafarov, V. V., and V. I. Trofimov, Analysis of Diffusional Processes on the Basis of Developed Free Turbulence - 1800
Kalinina, S. P., see Shostakovskii, M. F. - 944
Kalinina, S. P., See Shostakovskii, M. F. - 1416
Kalugin, N. V. and M. G. Voronkov, Water-Repellent Impregnation of Cotton Fabrics by Organosilicon Compounds - 1374
Katkova, K. P., see Bolotov, B. A. - 892
Katsobashvili, Ia. R., and N. S. Kurkova, Effect of the Amount of Catalyst on Intensification of the Destructive Hydrogenation of Petroleum Residues in the Liquid Phase, 862
Katsobashvili, Ia. R., and N. V. Sidorova, Coke Formation of Catalytic Destructive Hydrogenation of Petroleums and Petroleum Residues - 1240
Kaut, V. M., see Atroshchenko, V. I. - 340
Kazakov, E. I. and E. Kh. Liiv, Presence of Ether Groups in Heavy Tar from Shale - 1117
Kazarnovskii, S. N. and N. L Malkina, Mechanism of the Reaction Occuring During the Heat Treatment of Urea Under the Pressure of the Gases Formed - 439
Ketov, A. N. and V. V. Pechkovksii, Interaction of Sulfur Dioxide with Calcium Oxide and Carbonate - 1774
Khadeev, V. A., see Zhdanov, A. K. - 627
Khamskii, E. V. and M. L. Chepelevetskii, Effect of the Conditions of Formation of Calcium Sulfate Hemihydrate on the Kinetics of Its Conversion into the Dihydrate in Phosphoric Acid Solutions - 972
Khananashvili, L. M., see Kreshkov, A. P. - 1733
Kharakhorin, F. F., see Al'tshuler, O. V. - 266
Kiprianov, G. I. and L. M. Kutsenko, Improvement of the Method for the Production of Octestrol ("Octofollin") - 658
Kireeva, M. V., Influence of the Specific Surface of the Oxidation of Chromite Charges - 1484

Kirsanova, R. P, and S. Sh. Byk, Liquid-Vapor Equilibrium in the System Acetaldehyde - Methyl Alcohol at Atmospheric Pressure - 1610
Kiselev, V. S. and T. A. Ermolaeva, Production of Rapidly Drying Coatings Based on Polyester Resins from Semidrying Oils and Butyl Orthotitanate - 100
Kiseleva, E. N., see Gel'perin, N. I. - 1020
Kishinevskii, M. Kh., see Mochalova, L. A. - 525
Kishinevskii, M. Kh., see Mochalova, L. A. - 1007
Klebanskii, A. L., see Dolgopol'skii, I. M. - 1385
Klebanskii, A. L., I. V. Grachev, and O. M. Kuznetsova, Oxidation of Dimethylacetylenyl Carbinol by Cupric Chloride in Ammonia Solution - 1858
Klevke, V. A., see Miniovich, M. A. -1724
Kliashtornyi, M. I., The Production of Metallic Potassium and K-Na Alloy by the Reaction KOH + Na = NaOH + K - 157
Klimov, K. I., see Sinitsyn, V. V. - 1191
Kliuev, V. N., L. A. Dogadkina, S. N. Solodushenkov and A. A. Spryskov, Azo Dyes From Aminocar banilide and Its Substitution Products - 113
Kniazeva, K. P., see Vol'fkovich, S. I. - 965
Kochergin, S. M. and G. R. Pobedimskii, Use of Radioactive Isotopes in Studies of the Conditions of Formation of Electrolytic Alloys - 1413
Kochkin, D. A., see Shostakovskii, M. F. - 226
Kochkin, D. A., see Shostakovskii, M. F. - 944
Kochkin, D. A., see Shostakovskii, M. F. - 1416
Kogan, L. M., N. M. Burmakin, N. P. Ignatova and N. V. Cherniak, Preparation of Octachloro-1,3-pentadiene - 495
Kogan, L. M., See Zimakov, P. V. - 600
Kogan, L. M., Reaction of Ethylene Chlorohydrin with Magnesium Compounds of a Basic Character - 1421
Kogan, L. M. and N. M. Burmakin, The Principles of Hexachlorocyclopentadiene Technology - 1585
Kondrat'ev, E. V., and M. I. Kostina, Investigation of the Chemical Composition of Woods Buried in Peat Deposits - 880
Konkin, A. A. and Iu. A. Rymashevskaia, A Study of the Xanthation of Cellulose Preparations - 445
Kononov, N. F., see Shuikin, N. I. - 1757
Kononov, N. F., see Shuikin, N. I. - 1717
Konopkina, Z. I., Solubility in the System: Calcium – Potassium Dichromate – Water - 1296
Kopylev, B. A., see Pozin, M. E. - 167
Kopylev, B. A., see Pozin, M. E. - 375
Kopylev, B. A., see Pozin, M. E. - 838
Kopylev, B. A., see Pozin, M. E. - 1001
Korol'kov, I. I., V. I. Sharkov, and A. V. Krupnova, Investigation of the "Recrystallization" Effect in Cellulose - 1560
Korotkina, D. Sh., see Dolgoplosk, B. A. - 611
Korovin, Iu. M., see Ulanovskii, I. B. - 1352
Korsh, M. P. and F. P. Ivanovskii, Reaction of Nitric Oxide with Hydrogen Sulfide Catalysts - 976
Kortnev, A. V., see Gasiuk, G. N. - 1013
Kortnev, A. V., see Gasiuk, G. N. - 1778
Kosha-Shomodi, I., see Fedot'ev, N. P. - 487
Kostina, M. I., see Kondrat'ev, E. F. - 880
Kosyreva, I. K., see Glikman, S. A. - 1077
Kotrelev, V. N., see Pesin, L. M.
Kotrelev, V. N., see Shostakovskii, M. F. - 944
Kotrelev, V. N., see Shostakovskii, M. F. - 1416
Koval'chenko, M. S., V. S. Neshpor, and G. V. Samsonov, Investigation of the Conditions for the Formation of Lanthanum Carbide - 1406
Kovalenko, P. N., Precipitation of Copper and Bismuth by Metallic Lead from Hydrochloric Acid Electrolytes - 230
Kovalenko, P. N., Determination of the Precipitation pH and Calculation of the Solubility Product of Antimony Hydroxide by a Polarographic Method - 1488
Kovalev, V., and D. Tishchenko, Herbicides from Phenols in Tar Obtained by Pyrolysis of Wood - 1695
Kovaleva, T. V., see Vdovenko, V. M. - 81
Kozich, E. S., see Rotinian, A. L. - 411
Kozolov, N. S., and S. Ia. Chumakov, Catalytic Method for the Synthesis of Vinyl Esters - 134
Kozlov, V. N., and B. I. Smolenskii, Distribution of Acetic Acid Between Two Coexisting Phases - Nonaqueous and Aqueous - 497
Kozlov, V. N., and B. I. Smolenskii, Solvent Extraction of Acetic Acid from Aquqous Solutions - 913
Koz'mina, O. P., and V. I. Kurliankina, Thermooxidative Decomposition of Benzylcellulose - 1752
Krainii, P. Ia., see Gasiuk, G. N. - 1013
Krainii, P. Ia., see Gasiuk, G. N. - 1778
Krakoviak, M. G., see Vansheidt, A. A. - 1888
Krasinskaiam D. M., see Dolgopol'skii, I. M. - 1385
Krasivskaia, A. A., see Sobolev, M. A. - 119
Krasnichenko, L. V., and M. G. Ross, Oxygen and Nitrogen in Metallization Pseudoalloys - 1160
Krasnov, K. S., The Dissolution of Apatite in Phosphoric Acid Partially Neutralized with Magnesium (in Solutions of the System $MgO-P_2O_5-H_2O$) - 333
Krasnov, Iu. N., see Smirnov, M. V. - 60
Krasnov, Iu. N., see Smirnov, M. V. - 217
Kreshkov, A. P., Iu. Ia. Mikhailenko, L. V. Myshliaeva, and L. M. Khananashvili, Investigation of the Reaction Products of Certain Organosilicon Compounds with Aqueous Alkaline Solutions of Aluminates, Stannates, and Plumbites by Means of Infrared Absorption Spectroscopy - 1733

Kriukov, S. I., and M. I. Farberov, Synthesis of Methylpentadiene Based on Propylene - 462
Krivonos, F. F., Solubility of Chlorine in Benzene - 487
Krivonos, F. F., Kinetics of the Photochemical Chlorination of Benzene - 577
Krokhin, N. G., see Gel'perin, N. I. - 1020
Krotov, I. V., V. V. Grinina and N. A. Zapol'skaia, Production of Aluminum and Chromium Phosphate Films on Aluminum and Its Alloys - 29
Krupnova, A. V., see Korol'kov, I. I. - 1560
Krylova, A. G., see Antipenko, G. L. - 847
Krymakova, E. E., see Pomosov, A. V. -207
Krymakova, E. E., see Levin, A. I. -569
Kuadzhe, M. I., Sorptional and Catalytic Properties of Some Natural Formations - 996
Kucherovskaia, V. N., see Rabovskaia, N. S. - 1747
Kudriavtsev, G. I., see Sokolova-Vasil'eva, E. A. - 253
Kudriavtsev, N. T., see Tiutina, K. M - 196
Kudriavtsev, T. N., see Tiutina, K. M. - 1048
Kukhareva, L. V., see Vansheidt, A. A. - 1888
Kuksenko, E. P., see Skorcheletti, V. V. -1813
Kulagina-Smirnova, Z. G., see Vol'fkovich, S. I. - 965
Kulakova, O. M., see Danilov, S. N. - 236
Kurkova, N. S., see Katsobashvili. Ia; R. - 862
Kurliankina, V. I., see Koz'mina, O. P. - 588
Kurliankina, V. I., See Koz'mina, O. P. - 1752
Kurochkina, G. I., see Shorygina, N. V. - 136
Kurochkina, G. I., see Shorygina, N. V. - 279
Kus'kina, E. I., see Volkov, G. I. - 1744
Kutsakov, F. M., Treatment of Technical Alumina and Study of Some of its Properties for Chromatographic Separation of Inorganic Cations - 814
Kutsenko, A. I., and V. I. Liubomilov, Preparation of 2-Ethylhexanol-1 by Condensation of n-Butanol - 1400
Kutsenko, L. M., see Kiprianov, G. I. - 658
Kuzin, I. A., T. P. Plachenov, and V. P. Taushkanov, Study of the Structure and Sorption Properties of Charcoals Oxidized by Hydrogen Peroxide - 1304
Kuz'mina, E. V., see Eliseeva, V. I. - 1234
Kuz'minskii, A. S. and L. V. Borkova, Changes in the Infrared Absorption Spectra During Vulcanization of Ebonites - 635
Kuznetsov, A. K., Interaction of Calcium Zirconate with B_2O_3 Mineralizer - 1790
Kuznetsova, G. I., see Shostakovskii, M. F. - 1416
Kuznetsova, O. M., see Klebanskii, A. L. - 1858
Kuznetsova, S. S., see Pen'kovskii, S. S. - 948

Labenskii, A. S., Narcotoline in Opium - 311 BC
Lantratov, M. F., see Alabyshev, A. F. - 1737
Lapkova, L. B., see Salchinkin, A. P. - 1894
Lapteva, O. N., Effect of pH on the Oxidation-Reduction Potential of a Solution Containing Ferric and Ferrous Ions - 1199
Lapteva, O. N., Phase Diagram of the System: Iron Compound – Aqueous Medium, in Redox Potential – pH Coordinates - 1286
Latysheva, E. I., see Vol'nov, I. I. - 1597
Laufer, V. M., see Davankov, A. B. - 479
Lavrent'eva, E. M., see Ushakov, S. N. - 1673
Lebedev, B. L., see Adaskin, E. M. - 582
Lebedev, B. L., see Adaskin, E. M. - 886
Lekhovitskii, I. N., see Marchenko, N. A. - 1511
Lel'chuk, Sh. L. and V. I. Sedlis, The Effects of Plasticizers on the Properties of Polyvinyl Chloride - 258
Lel'chuk, Sh. L., and V. I. Sedlis, Compatibility and Volatility of Plasticizers, and General Conclusions - 875
Lel'chuk, Sh. L. and V. I. Sedlis, Effect of Plasticizer Efficiency on the Viscosity of Polyvinyl Chloride Compositions - 1380
Lerner, O. M., Use of Ethylenediamine for the Synthesis of Unsaturated Nitro Compounds of the Aromatic Series - 655
Lepinskikh, B. M., see Musikhin, V. I. - 162
Levin, A. I., see Pomosov, A. V. - 207
Levin, A. I., A. V. Pomosov, E. E. Krymakova and V. I. Falicheva, The Effect of a Combined Addition of Glue, β-Naphthol and Antimony on the Electrodeposition of Zinc - 569
Levin, A.I. and S. A. Pushkareva, Concentration Changes Near the Electrodes in Iron Electrolytes, and Characteristics of the Cathodic Liberation of Iron - 1034
Levin, A. I., Laboratory Column for Microfractionation - 1643
Levitina, E. I., Nature of the Oxide Film Formed on Iron in Alkaline Solutions of Oxidizing Agents - 35
Levitskaia, I. B., see Gluzman, M. Kh. - 276
Liandzberg, G. Ia., Some Reaction of Acid Dextrin Sulfates -1891
Liapina, L. A., see Smirnov, M. V. - 60
Liapunov, A. N., and A. E. Montvid, Effect of the Velocity Gradient Along the Autoclave Radium in Laminar Flow of the Pulp on the Yield of Alumina in Alkaline Leaching of Bauxite - 929
Liiv, E. Kh., see Kazakov, E. I. -1117
Lipin, A. I., see Shluger, M. A. - 65
Liubomilov, V. I., see Kutsenko, A. I. -1400
Livshits, P. S., Structure and Properties of Copper-Graphite Mixtures - 381
Lizogub, A. P., see Zabolotnyi, I. I. - 202

Loginov, V. M, see Avgustinik, A. I. - 1140
Lokshin, M. A., see Ganz, S. N. - 185
Loshkarev, A. G., "Shavingless" Dissolution of Alloys - 1165
Loshkarev, A. G., "Shavingless" Dissolution of Magnesium, Zinc, Tin, and Iron in Hydrochloric Acid - 1493
Loshkarev, M. A., V. I. Chernenko, and I. V. Gamali, Some Peculiarities of the Refining of Lead from Sulfamic Acid Electrolytes - 236

Maier, A. A., and N. S. Manuilova, The Interaction of Alite and Belite with Quartz in Autoclave Treatment - 148
Maitak, G. P., Anodic Polarization of Zinc in Sulfuric Acid - 1504
Maitak, G. P., Electrochemical Polishing of Zinc in Sulfuric Acid - 1741
Makhorin, K. E. and V. M. Chertov, Steam-Gas Activation of Anthracite in a Fluidized Layer - 630
Makolkin, I. A., N. P. Petrov, and V. G. Faiman, Kinetics of the Gas-Phase Corrosion of EI-473B Alloy in Air and in Nitrogen-Hydrogen Mixture - 1665
Maksimova, I. S., see Isaguliants, V. I. 1578
Maliugina, N. I., see Mukhin, G. A. -1150
Malkina, N. I., see Kazarnovskii, S. N. - 439
Manakin. G. A., see Varlamov, M. L. - 172
Mandel'baum, Ia. A., see Mel'nikov, N. N. - 926
Man'kovssaia and G. I. Moskvina, The Role of Catalysts in the Oxidation of Paraffin (Wax) to Fatty Acids - 248
Manuilova, N. S., see Maier, A. A. - 148
Marchenko, N. A., I. N. Lekhovitskii, and N. A. Butianova, Electrolytic Deposition of Silver with Periodic Reversal of Direct Current - 1511
Markman, A. L., see Vil'kova, S. N. - 1548
Markovskii, L. Ia., and N. V. Vekshina, Production of Borides of Alkaline-Earth Metals by Reduction of the Oxides by Carbon - 1280
Mashovets, V. P. and A. A. Revazian, Anode Overvoltage and Mechanism of Anodic Discharge in the Electrolysis of a Cryolite-Alumina Melt - 560
Mashovets, V. P., Tests of Experimental Storage Cells with Grids Made from Alloys Containing Impurities - 1341
Maslennikov, A. S., Determination of Cyclohexanone in Presence of Other Ketones - 1265
Maslova, N. D., see Averbukh, T. D. - 824
Matsokin, V. I., see Skalozubov, M. F - 1409
Matveev, I. G., N. I. Gel'perin, K. V. Vil'shau, and R. L. Globus, Hydrocarbons of the Diphenylmethane Series as High-Temperature Heat Transfer Media, and Their Physicochemical Properties - 856
Matveev, I. G., see Gel'perin, N. I. - 1309
Matveev, M. A., see Matveev, V. A. - 819
Matveev, V. A., G. D. Nessonova, and M. A. Matveev, The Production and Use of Alkali Organosilicon Silicates - 819
Mchedlov-Petrosian, O. P., see Budnikov, P. P. - 1612
Mechkovskaia, T. A., Investigation of Bright Nickel-Plating Baths - 1649
Medvedeva, P. A., see Gavurina, R. K. - 106
Melikian, R. A., The Hydraulic Regimes Which Arise in Sieve and Bubble-Cap Equipment - 541
Mel'nikov, N N., Ia. A. Mandel'baum and V. N. Volkov, The Preparation of Phosphorus Thiotrichloride - 926
Mel'nikov, E. P., see Vansheidt, A. A. - 1888
Merkulova, O. P., see Ipat'ev, V. V. - 1880
Mikhailenko, Iu. Ia., see Kreshkov, A. P. -1733
Mikhailova, I. F., see Mur, V. I. - 273
Minachev, Kh. M. , see Shuikin, N. I. - 1717
Minachev, Kh. M., see Shuikin, N. I., 1757
Miniovich, M. A., The Present State and Development Prospects of the Production of Dilute Nitric Acid - 1121
Miniovich, M. A., A. L. Shneerson, and V. A. Klevke, A New Cooling Brine for Condensation of Nitrogen Oxides from Nitrous Gases - 1724
Mirzabekov, F., see Zhdanov, A. K. - 627
Mitkevich, E. M., Investigation of the Calcination of Technical Sodium Bicarbonate - 153
Mitkevich, E. M., The Liberation of Ammonia from Technical Sodium Bicarbonate - 326
Mitrofanova, A. V., see Gavurina, R. K. - 1217
Mitskevich, N. I., see Erofeev, B. V. - 1796
Mochalova, L. A., and M. Kh. Kishinevskii, Kinetic Relationship in Absorption by the Bubbling Method - 525
Mochalova, L. A., and M. Kh. Kishinevskii, Mass Transfer in Bubbling Absorption - 1007
Mokrushin, S. G., see Shveikina, R. V - 933
Mokrushin, S. G., see Shveikina, R. V. - 1099
Molchanov, V. S., see Iastrebove, L. S. - 1615
Moldavskii, B. L., and I. L. Belostotskaia, Effect of Custic Soda and Manganese and Cobalt Salts on the Oxidation of Isopropylbenzene to the Hydroperoxide - 1875
Montvid, A. E., see Liapunov, A. N. - 929
Morachevskii, A. G. - Thermodynamic Properties of Liquid Alloys in the System Sodium-Lead - 1252
Moshchanksii, N. A., The Stability of the Minerals of Portland Cement in Water and Solutions of Sulfuric Acid and Caustic Soda - 320
Moskvina, G. I., see Man'kovskaia, N. K. - 248

Mukhin, G. A., N. I. Maliugina and T. S. Uspenskaia, Study of the Burning Out of Chromium in the Production of Synthetic Ruby - 1150
Mukhlenov I. P., Investigation of a Suspended Layer of Mobile Foam in Sieve-Plate Equipment - 40
Mukhlenov, I. P. and E. Ia. Tarat, The Hydraulic Resistance of Grids - 534
Mukhlenov, I. P., Kinetics of Heat and Mass Transfer in a Foam Layer - 1328
Mukhlenov, I. P. and E. S. Tumarkina, Kinetics of Heat and Mass Transfer in a Foam Layer - 1635
Mur, V. I. and I. F. Mikhailova, Certain Azo Dyes Obtained from 4,4'-Diaminodiphenyl-3,3'-Dihydroxyacetic Acid and N-Aryl-3-Methyl-5-Aminopyrazoles - 273
Musikhin, V. I., O. A. Esin and B.M. Lepinskikh, The Influence of Mn, P, and Si on the Activity of Aluminum in Liquid Crude (Cast Iron) - 162
Myshliaeva, L. V., see Kreshkov, A. P. - 1733

Nakhmanovich, B. M., Study of the Pentose Hydrolysis of Corncob Cores - 1572
Nazarova, Z. N., Characteristics of the Fusel Oil Formed in the Fermentation of Cotton-Hull Hydrolyzates - 451
Nekrasov, V. V. and G. A. Shisho, Contraction in the Hardening of Portland Cement with Added Chlorides at Positive and Negative Temperatures - 1460
Neshpor, V. S., see Koval'chenko, M. S. - 1406
Nessonova, G. D., see Matveev, V. A. - 819
Nikitin, N. I., see Petropavlovskii, G. A. - 1851
Nikitina, Z. Ia., Passivation of Zinc Electrodes in Galvanic Cells with Alkaline Electrolytes - 209
Nikolaev, A. P., Mass Transfer in Distillation in Wetted-Wall Columns - 184
Nikolaev, N. I., see Deviatykh, G. G. - 356
Nikol'skii, L V., see Balezin, S. A. - 1171
Novikov, S. S., see Shuikin, N. I. - 1717
Novikov, S. S., see Shuikon, N. I. - 1757

Orlova, E. Iu. and S. S. Romanova, Investigation of the By-Product Formed in the Nitration of Toluene - 1541
Ostroumov, V. V., Electrolytic Deposition of Palladium from Solutions Containing Caustic Alkali - 70
Ostroumov, V. V., Influence of Certain Organic Substances on the Palladium-Plating Process - 389
Ostroumov, V. V. and I. F. Plokhotnikova, Deposition of Copper from Acid Electrolytes by Means of Periodically Reversed Current - 1520
Ostroumov, V. V. and I. F. Plokhotnikova, Influence of Chloride-Ion Admixtures on the Deposition of Copper by Periodically-Reversed Current - 1655
Ozerov, A. M. and I. N. Eremina, The Use of Asymmetrical Alternating Current in the Electrodeposition of Metals - 1052

Pakhomova, A. D., see Shokol, A. A. -124
Pal'guev, S. F., see Smirnov, M. V. - 60
Pal'guev, S. F., see Smirnov, M. V. - 217
Panaiushin, L. A., see Tumarev, A. S. -1290
Panasiuk, V. G., Thermal Liquefaction of Cotton-Hull Lignin - 1390
Panasiuk, V. G., Comparison of Different Methods for the Thermal Decomposition of Hydrolytic Lignin - 1605
Parkacheva, V. V., see Pechkovskii, V. V. - 1466
Pashkevich, L. A., see Beneslavskii, S. I. - 505
Pavlov, S. V., see Adaskin, E. M. - 582
Pavlushenko, I. S., see Ianishevskii- A. V. - 1205
Pavlushenko, I. A. and A. V. Ianishevskii, Rotation Speeds of Stirring of Two Mutually Insoluble Liquids - 1334
Pen'kovskii, S. S. and S. S. Kuznetsova, Preparation of 1,5-Naphthylenediamine - 948
Perekalin, V. V. and K. Baier, A New Method for the Synthesis of Nitro Ketones - 661
Persits, Z. L., see Vil'nianskii, Ia. E. - 143
Pesin, L. M., V. N. Kotrelev, A. E. Zarubitskii and F. E. Segalevich, The Effects of Some Impurities in Melamine on its Condensation with Formaldehyde - 139
Pechkovskii, V. V., see Ketov, A. N. - 1774
Pechkovskii, V. V., Decomposition of Zinc and Cobalt Sulfates in a Current of Sulfur Dioxide and Air - 1130
Pechkovskii, V. V., S. A. Amirova and V. V. Parkacheva, Extraction of Valuable Components from Flotation Pyrite by Sulfating Roasting - 1466
Petrenko, A. T., see Antropov, L. I. - 1497
Petrenko, A. T., see Antropov - 1839
Petrenko, A. T. and L. I. Antropov, Nature of the Influence of the pH of the Medium on the Corrosion of Iron in Presence of Inhibitors - 940
Petropavlovskii, G. A. and N. I. Nikitin, Properties of Low-Substituted Cellulose Nitrates Esters - 1851
Petrov, N. P., see Makolkin, I. A. - 1665
Petrova, N. A., see Pozin, M. E. - 838
Petrova, N. A., see Pozin, M. E. - 1001
Petrovskii, Iu. V., see Fastovskii, V. G. - 3
Pigulevskii, G. V. and S. B. Rzaeva, Investigation of the Fatty Oil of Silybum Marianum Gaertn. - 492
Plit, I. G., Scrubbing Absorption of Carbon Dioxide in Potassium Carbonate Solution - 180

Plit, I. G., Theory of Absorption Complicated by an Equilibrium Chemical Reaction in the Liquid Phase - 49
Pliusnin, V. G., E. P. Babin, and S. I. Chertkova, Large Unit for Hydrogen Fluoride Polymerization of Terpenes from Oleoresin and Strump Turpentines, "Benzene Head" Cyclopentadiene, and Unsaturated Compounds from Crude Benzene - 1592
Plachenov, T. G., see Kuzin, I. A. - 1304
Plotnikov, I. M , see Esin, O. A. -1826
Plotnikova, V. I., see Postnikov, N. N. - 1453
Plokhotnikova, I. F., see Ostroumov, V. V. - 1520
Plokhotnikova, I. F., see Ostroumov, V. V. - 1655
Pobedimskii, G. R., see Kochergin, S. M. - 1413
Pogodin, I. I., see Gorchakov, N. D. - 55
Polkovnikova, A. G., see Sergeev, P. G. -1396
Pomosov, A. V., see Levin, A. I. - 569
Pomosov, A. V., E. E. Krymakova and A. I. Levin, Investigation of the Corrosion of Zinc in Electrolytes Composed of Sulfuric Acid Carrying Impurities - 207
Ponomarev, V. D. and V. S . Sazhin, Mechanism of the Decomposition of Nephelines by Alkaline Solution - 1134
Popel', S. I., see Esin, O. A. -1826
Popova, I. A., and R. D. Zamyslov, Varnish Flaws ("Bittiness") in Alkyd Enamels - 640
Popova, N. M., see Samsonov, G. V. -148
Postnikov, N. N., Comparative Reduction of Tricalcium Phosphate by Gaseous Reducing Agents — Hydrogen, Carbon Monoxide, and Methane — and by Solid Carbon - 1269
Postnikov, N. N., M. G. Frenkel', B. B. Evzlina, A. I. Smirnov and V. I. Plotnikova, Composition and Properties of Defluorinated Phosphates - 1453
Pozin, Iu. M., see Fedot'ev, N. P. - 406
Pozin, M. E., G. S. Grigor'ev, B. A. Kopylev and A. D. Sokolova, The Rate of Interaction of Apatite with Sulfuric Acid in the Course of Mixing - 167
Pozin, M. E. and B. A. Kopylev, Effect of Gas Velocity on Mass Transfer in Absorption Under Bubbling and Foam Conditions - 375
Pozin, M. E., B. A. Kopylev, and N. A. Petrova, Absorption of Hydrogen Sulfide by Arsenical Soda Solution in a Foam Apparatus - 838
Pozin, M. E., B. A. Kopylev and N. A. Petrova, Absorption of Ammonia by Cuprammonium Solution in a Foam Apparatus - 1001
Pozin, M. E. and E. Ia. Tarat, Kinetics of the Absorption of Water Vapor by Sulfuric Acid Under Turbulent (Foam) Conditions - 1318
Prilutskaia, N. V., see Iukhnovskii, G. L. - 1081
Protsenko, Z. I., see Gaponenkov, T. K. - 305
Pushkareva, S. A., see Levin, A. I. -1034
Rabovskaia, N. S. and V. N. Kucherovskaia, Preparation of Ethylene Glycol Diacetate in Presence of Cation-Exchange Resins - 1747
Razgil'deev, N. E., see Davankov, A. B. - 479
Razumov, V. N., see Esin, O. A. - 1826
Reshetnikova, L. E., see Viakhirev, D. A. - 269
Revazian, A. A., see Mashovets, V. P. - 560
Roman, L. V., see Bardyshev, I. I. - 1754
Romankov, P. G., see Siirde, E. K. - 1807
Romanov, V. V. and V. V. Dobroliubov, Influence of Temperature on the Effect Produced by Cathodic and Anodic Polarization of MA2 Alloy in 1N H_2SO_4 + 35 g/l NaCl Solution During Corrosion Cracking - 215
Romanova, S. S., see Orlova, E. Iu. - 1541
Ross, M. G., see Krasnichenko, L. V. - 1160
Rostovskii, E. N., see Arbuzova, I. A. - 1691
Rotinian, A. L., and E. S. Kozich, Internal Stresses in Cathodic Nickel Deposits - 411
Rovinskii, A. E., see Fastovskii, V. G. - 3
Rozman, B. Iu., E. A. Sivolodskii, Iu. A. Davydov and A. N. Bystrov, Thermal Decomposition of Ammonium Nitrate - 1089
Rus'ianova, N. D., M. V. Goftman and L. A. Burmistrenko, The Nitrogenous Bases of Coal Tar — Inhibitors of Steel Corrosion in Acid Pickling Liquors - 221
Rybkina, L. A., see Shikher, M. G. -300
Rychkova, A. G., The Chemical Composition of Decayed Birch and Aspen Wood - 252
Ryklis, S. G. and S. M. Shein, A Continous Process for the Condensation of Chloral with Chlorobenzene - 1106
Rymashevskaia, Iu. A., see Konkin, A. A. - 445
Rzaeva, S. B., see Pigulevskii, G. V. - 492
Salchinkin, A. P. and L. B. Lapkova, Preparation of Furfuryl Alcohol - 1894
Sal'nikov, Ia. A., see Antipin, L. N. - 1091
Samsonov, G. V., see Koval'chenko, M. S. -1406
Samsonov, G. V., N. M. Popova, and L. I. Tikhomirova, Preparation of Cerium Monosulfide - 148
Sapotnitskii, S. A., Decomposition of Glucose in Sulfite Cooking - 296
Sazhin, V. S., see Ponomarev, V. G. -1134
Sazonova, R. N., see Goriaev, M. I. - 274
Sedlis, V. I., see Lel'chuk, Sh. L. - 258
Sedlis, V. I., see Lel'chuk, Sh. L. - 875
Sedlis, V. I., see Lel'chuk, Sh. L. - 1380
Segalevich, F. E., see Pesin, L. M. - 139
Serebrennikova, M. A., see Averbukh, T. D. -824

Sergeev, P. G., L. M. Bukreeva and A. G. Polkovnikova, Synthesis of Allyl by Isomerization of Propylene Oxide - 1396
Seletskii, A., see Tsiborovskii, Ia. - 511
Seleznev, A. K., Production of β-Chloroethyl Isopropyl, β-Chloroethyl Isoamyl, β-Chloroethyl Hexyl, and β-Chloroisopropyl Isobutyl Ethers from Unsaturated Hydrocarbons - 607
Seleznev, A. K., Synthesis of β-Chloro Ethers from Unsaturated Hydrocarbons by the Vapor-Phase Method - 1868
Sevast'ianov, V. L, Sulfonation of 2- and 4-Nitrophenanthrenequinones - 649
Sevriukov, N. N., Electrolysis of Aqueous Sodium Thiostannate Solutions - 1060
Sidorova, N. V., see Katsobashvili, Ia. R. -1240
Sidorova-Tikhomierova, N. S., see Danilov, S. N. - 236
Siirde, E. K. and P. G. Romankov, Investigation of Steam Distillation - 1807
Sinitsyn, V. V., K. I. Klimov, and E. V. Aleeva, Colloidal Stability of Lithium Lubricants and the Influence of Their Dispersion Media on it - 1191
Sivolodskii, E. A., see Rozman, B. Iu. - 1089
Shabanov, I. M., see Goriaev, M. I. - 274
Shalygin, V. A., see Gaziev, G. A. - 1210
Sharkov, V. I., see Korol'kov, I. L - 1560
Sharkov, V. I., and V. Guzhavina, Binary Compounds of Glucose with Mineral Salts - 1749
Shchegol', Sh. S., Stability of Aqueous Sodium Chlorite Solutions During Evaporation - 153
Shein, S. M., see Ryklis, S. G- 1106
Sheina, S., see Tishchenko, D. - 1864
Sheliubskii, V. I., see Indenbom, V. L. - 621
Shevchenko, M. A., Action of Oxidizing Agents on Humic Substances of the Water From the River Dnepr - 95
Shisho, G. A., see Nekrasov, V. V. - 1460
Shikher, M. G. and L. A. Rybkina, Plastification of Starch Pastes - 300
Shluger, M. A., A. I. Lipin and P. P. Tel'nykh, Electrolytic Deposition of Lead - Indium Alloy - 65
Shneerson, A. L., see Miniovich, M. A. - 1724
Shokol, A. A. and A. D. Pakhomova, Reaction of Indium With Arsenate Ions - 124
Shorygina, N. V. and G. I. Kurochkina, Condensation of Xylenols (With Formaldehyde) in Presence of an Acid Catalyst - 136
Shorygina, N. V. and G. I. Kurochkina, Condensation of Xylenols in Presence of Alkaline Catalysts - 279
Shostakovskii, M. F. and D. A. Kochkin, Vinyl Compounds of Silicon - 226
Shostakovskii, M. F., V. N. Kotrelev, D. A. Kochkin, S. P. Kalinina, and V. V. Borisenko, Reactions of Dialkylsilane Diols with Diisocyanates - 944
Shostakovskii, M. F., V. N. Kontrelev, D. A. Kochkin, G. I. Kuznetsova, S. P. Kalinina, and V. V. Borisenko, Synthesis and Some Transformations of Organic Tin and Silicon Compounds - 1416
Shreider, A. V., see Figel'man, M. A. - 1175
Shreider, A. V. and A. G. Arakelov, Mechanism of Alkaline Surface Oxidation of Steel - 1660
Shuikin, N. I., Kh. M. Minachev, S. S. Novikov, N. F. Kononov and I. L. Garanin, Upgrading of Straight-Run Gasolines by Low-Temperature Dehydrogenation over Platinized Carbon - 1717
Shuikin, N. I., Kh. M. Minachev, I. L. Garanin, S. S. S. Novikov, and N. F. Kononov, Preparation of Toluene Concentrates from Petroleum Fractions by Low-Temperature Dehydrogenation Over Platinized Carbon - 1757
Shusharina, A. D., see Gerber, M. I. - 1478
Shusharina, A. D., see Gerber, M. I. - 1612
Shushunov, V. A., Mechanism of the Chemical Processes Taking Place in Cyaniding Baths - 1356
Shveikina, R. V. and S. G. Mokrushin, Effect of Hydrogen-Ion Concentration of the Extraction of Colloids from Solutions with the Acid Foam - 933
Shveikina, R. V. and S. G. Mokrushin, Effect of Temperature on the Kinetics of Extraction of Colloids by Foam - 1099
Skalozubov, M. F., and V.I. Matsokin, Radiometric Determination of the Surface Areas of Disperse and Porous Substances - 1409
Skirstymonskaia, B. I., Investigation of Cathode Processes in the Simultaneous Deposition of Lead and Copper - 395
Skirstymonskaia, B. I., The Simultaneous Electrodeposition of Metals - 624
Skop, S. L., V. P. Teodorovich, and V. V.Ipat'ev, Decarburization of Carbon Steels by Hydrogen at High Tempertures and Pressures - 1884
Skorcheletti, V. V., I. A. Stepanov, and E. P. Suksenko, Anodic Behavior of Alloys of the Copper-Zinc System in 0.1 N Potassium Chloride Solution - 1813
Skrynnik, I. V., S. I. Sukhanovskii and M. I. Chudakov, Exchange Properties of "Lignin Acids" - 644
Skurikhin, G. M. and V. I. Iur'ev, Study of the Exchange-Adsorption Properties of Monocarboxycellulose - 920

Smakota, N. F., see Beliaev, G. N. - 1730
Smakota, N. F., see Beliaev, G. I. - 1783
Smirnov, A. I., see Postnikov, N. N.- 1453
Smirnov, M. V., S. F. Pal'guev, Iu. N. Krasnov, and L. A. Liapina, Equilibrium Potentials of Calcium Oxide - Carbon Electrodes - 60
Smirnov, M. V., S. F. Pal'guev, and Iu. N. Krasnov, Behavior of Calcium—Oxide Carbon Electrodes in the Electrolysis of Fused Chlorides - 217
Smolenskii, B. I., see Kozlov, V. N. - 497
Smolenskii, B. I., see Kozlov, V. N. - 913
Sobolev, M. A. and A. A. Krasivskaia, The Molecular Weight of Flax Pectins - 119
Soboleva, N. F., see Ipat'ev, V. V. - 1472
Sokolov, A. G., see Bardyshev, I. I. - 595
Sokolova, A. D., see Pozin, M. E. - 167
Sokolova, L. I., see Alabyshev, A. F. - 1737
Sokolova, T. I., see Vol'fkovich, S. I. - 965
Sokolova-Vasil'eva, E. A., G. I. Kudriavtsev and A. A. Strepikheev, Investigation of the Saponification of Polyacrylonitrile by Sulfuric - 253
Solodushenkov, S. N., see V. N. Kliuev - 113
Sominskii, V., Review of the Book by N. N. Nekrasov: "Economics of the Chemical Industry"-1427
Sominskii, V. S., Great New Expansion of Industrial Chemistry - 1761
Somova, A. I., see Glikman, S. A. - 1077
Spryskov, A. A., see Kliuev, V. N. - 113
Starosel'skii, Ia. I., see Varlamov, M. L. - 172
Stasinevich, D. S. Equilibrium in the Reaction $2Br' + Cl_2 \rightleftharpoons Br_2 + 2Cl'$ in the Process for the Production of Bromine from Natural Brines - 174
Stasinevich, D. S., Theoretical Analysis and Calculations Relating to the Oxidation of Bromide Ions by Chlorine in the Production of Bromine by the Blowing-Out Process - 833
Stender, V. V., see Zholudev, M. D. - 191
Stender, V. V., see Zholudev, M. D. - 1030
Stepanov, I. A., see Skorcheletti, V. V. - 1813
Stol'nikov, V. V., Resonance Method for Investigating the Resistance of Concrete to Corrosive Media - 549
Strepikhaeev, A. A., see Sokolova - Vasil'eva, E. A.- 253
Strunkin, V. A., see Tseitlin, Kh. L. - 1832
Stul'pinas, B. B., see Ianitskii, I. V. - 243
Sukhanovskii, S. I., see Skrynnnik, I. V. - 644

Tarat, E. Ia., see Mukhlenov, I. P. - 534
Tarat, E. Ia., see Pozin, M. E. - 1318
Taushkanov, V. P., see Kuzin, I. A. - 1304
Tel'nykh, P. P., see Shluger, M. A. - 65
Teodorovich, V. P., see Gerber, M. L. - 1478
Teodorovich, B. P., see Gerber, M. L. - 1612
Teodorovich, V. P., see Ipat'ev, V. V. - 1880
Teodorovich, V. P., see Skop, S. L. - 1884
Tikhomirov, V.I., see Ipat'ev, V. V. - 1472
Tikhomirova, L. I., see Samsonov, G. V. -148
Tikhonova, V. S., see Aleksandrov, G. P. - 1445
Tishchenko, D.,see Kovalev, V. - 1695
Tishchenko, D. and S. Sheina, Demethylation of Methylphenols - 1864
Tiutina, K. M. and N. T. Kudriavtsev, Electrolytic Deposition of Tin-Nickel Alloy from Chloride—Fluoride Solutions - 196
Tiutina, K. M. and N. T. Kudriavtsev, The Anode Process in the Electrodeposition of Tin-Nickel Alloy from a Chloride—Fluoride Electrolyte - 1048
Toropov, N. A. and V. P. Barzakovskii, Silicate Technology, collection edited by R. Barta, Prague, 1955 - 958
Trandafelov, D., Thermal Decomposition of Silver Oxalate - 191
Trofimov, V. I., see Kafarov, V. V. - 1800
Trofimova, P. N., see Dolgopol'skii, I. M. -1224
Tumarev, A. A and L. A. Paniushin, Reduction of a Layer of Copper Oxide Under High Pressure of the Gaseous Phase - 1290
Tumarkina, E. S., see Mukhlenov, I. P. - 1635
Tseitlin, Kh. L. and S. M. Babitskaia, Corrosion of Steel by Hydrochloric Acid in the Spheroidal State - 76
Tseitlin, Kh. L. and V. A. Strunkin, Effect of Dilution of Chlorine with Nitrogen on the Corro sion of Metals at High Temperatures - 1832
Tsiborovskii, Ia. and A. Seletskii, Some Data on the Desorption of a Liquid from the Surface of a Fluidized Layer - 511
Tsyrlin, D. L., Status of the Production of Phosphate Fertilizers by Acid Treatment of Phosphates, and Immediate Prospects - 807
Tsyskovskii, V. K., Fundamentals of the Theory and Practice of the Continuous Oxidation of Short-Chain Normal Paraffins in the Liquid Phase - 427

Ukhova, L. I., see Bardyshev, I. I. - 502
Ulanovskii, I. B. and Iu. M. Korovin, Corrosion of Stainless Steels at Points of Contact with Nonmetallic Materials - 1352
Urazov, G. G., see Bogatskii, D. P. - 196
Urazov, G. G., see Bogatskii, D. P. - 313
Ushakov, S. N., see Arbuzova, I. A. - 1691
Ushakov, S. N., and E. M. Lavrent'eva, Synthesis of Copolymers of Vinyl Acetate with Crotonic Acid and its Derivatives - 1673
Uspenskaia, T. S., see Mukhin, G. A. - 1150

Vansheidt, A. A., see Vasil'ev, A. A. - 1260
Vansheidt, A. A., see Vasil'ev, A. A. - 1419

Vansheidt, A. A., see Vasil'ev, A. A. - 1527
Vansheidt, A. A., see Vasil'ev, A. A. - 1678
Vansheidt, A. A., E. P. Mel'nikova, L. V. Kukhareva and M. G. Krakoviak, Soluble Poly-p-Xylylene - 1888
Varlamov, M. L., G. A. Manakin, and Ia. I. Starosel'skii, Purification of Exhaust Gases of the Tower Sulfuric Acid System in Equipment of the Venturi-Tube Type - 172
Varypaev, V. N., see Fedot'ev, N. P. - 422
Vasil'ev, A. A. and A. A. Vansheidt, Synthesis Cation-Exchange Resins by Sulfonation of Phenol-Formaldehyde Novolacs at Elevated Temperatures - 1260
Vasil'ev, A. A. and A. A. Vansheidt, Production of Sulfonated Novolac Ion-Exchange Resins with Increased Exchange Capacity - 1419
Vasil'ev, A. A. and A. A. Vansheidt, The Chemical Nature of Sulfonated-Novolac Ion-Exchange Resins - 1527
Vasil'ev, A. A. and A. A. Vansheidt, Sulfonic Ion-Exchange Resins Based on Polystryrene and Formaldehyde - 1678
Vasserman, I. M and Kh. Z. Brainina, Chemical "Aging" of Precipitated Basic Nickel Carbonate, and the Mechanism of Sodium Carbonate Utilization in the Precipitation Process - 1605
Vazhenin, S. R., see Antipin, L. N. - 1091
Vdovenko, V. M. and T. V. Kovaleva, Study of Binary Systems of Sulfuryl Chloride with Chlorinated Hydrocarbons - 81
Vedernikov, A. P., see Bogoiavlenskii, A. F. - 294
Vekshina, N. V., see Markovskii, L. Ia. - 1280
Viakhirev, D. A. and L. E. Reshetnikova, Separation and Analysis of Mixtures of Chlorinated Methane Derivatives by a Chromathermographic Method - 269
Vil'kova, S. N. and A. L. Markman, Luminescence Method for Determination of Gossypol. - 1548
Vil'nianskii, Ia. E. and Z. L. Persits, The Theory of the Soda – Silica Process for the Production of Sodium Tungstate from Scheelite - 143
Vil'shau, K. V., see Matveev, I. G. - 856
Vil'shau, K. V., see Gel'perin, N. I. - 1309
Vitkin, A. I., The Dissolution of Iron from Tin Plate in Various Fluxes - 1607
Vodolazhenko, N. I., see Drozin, N. N. - 990
Vol'fkovich, S. I., T. I. Sikolova, Z. G. Kulagina-Smirnova and K. P. Kniazeva, Carbonation Process for Production of Cryolite from Fluosilicate Gases - 965
Volkind, I. Ia., Review of the article "Sodium, its Manufacture, Properties and Uses," by Marschal Sittig - 961
Volkov, G. I. and E. I. Kus'kina, Electrolysis with a Mercury Cathode Flowing Over a Vertical Surface - 1744
Volkov, V. N., see Mel'nikov, N. N. - 926
Vol'niv, I. I., and E. I. Latysheva, Preparation of Magnesium Peroxide - 1597
Volynets, F. K., Determination of the Evaporability of Oils and Greases - 851
Volynets, F. K., Kinetics of the Evaporation of Petroleum Oils - 1362
Voronkov, M. G., see Kalugin, N. V. - 1374
Voskresenskii, V. A., Aging of Some Plasticized Polyvinyl Chloride Compositions - 1110
Vyrodov, I. P., see Bergman, A G. - 16
Viakhirev, D. A. and Reshetnikova, L. E., Separation and Analysis of Mixtures of Chlorinated Methane Derivatives by a Chromathermographic Method - 789

Zabolotnyi, I. I. and A. P. Lizogub, Gas Formation During Acid Corrosion of Zinc - 202
Zaiats, A. I., see Frantsevich-Zabludovskaia, T. F. - 224
Zamyslov, R. D., see Popova, I. A. - 640
Zapol'skaia, N. A., see Krotov, I. V. - 29
Zarubitskii, A. E., see Pesin, L. M. - 139
Zel'vinskii, Ia. D., see Gaziev, G. A. -1210
Zhdanov, A. K., V. A. Khadeev, and F. Mirzabekov, Kinetics of the Liberation of Copper by the Diaphragm Method of Internal Electrolysis - 627
Zholudev, M. D. and V. V. Stender, Overvoltage in the Evolution of Hydrogen from Alkaline Solutions - 191
Zholudev, M. D. and V. V. Stender, Influence of Impurities and Additions in Electrolysis of Sodium Zincate Solutions - 1030
Zhukovskaia, S. A., see Kafarov, V. V. - 364
Zhuravlev, S. V. and A. N. Gritsenko, Synthesis of 3-Chlorodiphenylamine - 652
Zimakov, P. V. and L. M. Kogan, Some Peculiarities of the Reaction of Formation of Ethylene Oxide from Ethylene Chlorohydrin - 600
Ziminova, N. I., see Adaskin, E. M - 582
Ziminova, N. I., see Adaskin, E. M. - 886
Zorin, A. D., see Deviatykh, G. G. - 356
Zosimovich, D. P. and N. F Bogatova, Use of Soluble Nickel-Molybdenum and Nickel Anodes for the Production of Nicke-Molybdenum Alloys from Alkaline Electrolytes - 416
Zrelov, N. N., see Chertkov, Ia B - 1369
Zykova, S. K., see Iakubchik, A. I. - 1683

JOURNAL OF APPLIED CHEMISTRY OF THE USSR

Volume 31, Number 1 January, 1958

CONTENTS

	PAGE	RUSS. PAGE
Vladimir Vil'gel'movich Stender	1	3
Production of Pure Xenon. V. G. Fastovskii, A. E. Rovinskii and Iu. V. Petrovskii	3	5
Effect of Additions of Certains Cations and Buffer Solutions on the Regeneration of Arsenical Soda Liquors. N. I. Brodskaia, M. I. Gerber and S. S. Iordan	10	13
The Hardening of Magnesium Oxychloride Cements. A. G. Bergman and I. P. Vyrodov	16	19
Chromium Boride and Its Use in Hard Facing Alloys. I. I. Iskol'dkii and S. L. Cherkinskaia	22	25
Production of Aluminum and Chromium Phosphate Films on Aluminum and Its Alloys. I. V. Krotov, V. V. Grinina and N. A. Zapol'skaia	29	33
Nature of the Oxide Film Formed on Iron in Alkaline Solutions of Oxidizing Agents. E. I. Levitina	35	40
Investigation of a Suspended Layer of Mobile Foam in Sieve-Plate Equipment. I. P. Mukhlenov	40	45
Theory of Absorption Complicated by an Equilibrium Chemical Reaction in the Liquid Phase. I. G. Plit	49	54
Desorption of Solvents From Activated Carbon by Means of Inert Gases. N. D. Gorchakov and I. I. Pogodin	55	60
Equilibrium Potentials of Calcium Oxide – Carbon Electrodes. M. V. Smirnov, S. F. Pal'guev, Iu. N. Krasnov and L. A. Liapina	60	66
Electrolytic Deposition of Lead–Indium Alloy. M. A. Shluger, A. I. Lipin and P. P. Tel'nykh	65	71
Electrolytic Deposition of Palladium From Solutions Containing Caustic Alkali. V. V. Ostroumov	70	77
Corrosion of Steel by Hydrochloric Acid in the Spheroidal State. Kh. L. Tseitlin and S. M. Babitskaia	76	84
Study of Binary Systems of Sulfuryl Chloride with Chlorinated Hydrocarbons. V. M. Vdovenko and T. V. Kovaleva	81	89
Action of Oxidizing Agents on Humic Substances of the Water from the River Dnepr. M. A. Shevchenko	95	105
Production of Rapidly-Drying Coatings Based on Polyester Resins from Semidrying Oils and Butyl Orthotitanate. V. S. Kiselev and T. A. Ermolaeva	100	111

CONTENTS (continued)

	PAGE	RUSS. PAGE
Cast Unsaturated Polyester Resins Hardening in the Cold. R. K. Gavurina, P. A. Medvedeva and Sh. G. Ianovskaia	106	116
Azo Dyes From Aminocarbanilide and its Substitution Products. V. N. Kliuev, L. A. Dogadkina, S. N. Solodushenkov and A. A. Spryskov	113	124
The Molecular Weight of Flax Pectins. M. A. Sobolev and A. A. Krasivskaia	119	129
Brief Communications		
Reaction of Indium With Arsenate Ions. A. A. Shokol and A. D. Pakhomova	124	135
Sorption of Nitrogen Oxides by Solid Sorbents. S. N. Ganz	128	138
Thermal Decomposition of Middle-Temperature Coal Pitch. A. N. Chistiakov	131	140
Catalytic Method for the Synthesis of Vinyl Esters. N. S. Kozlov and S. Ia. Chumakov	134	143
Condensation of Xylenols (with Formaldehyde) in Presence of an Acid Catalyst. N. V. Shorygina and G. I. Kurochkina	136	144
The Effects of Some Impurities in Melamine on its Condensation with Formaldehyde. L. M. Pesin, V. N. Kotrelev, A. E. Zarubitskii and F. E. Segalevich	139	146
Book Reviews		
I. I. Revzin. Plastics in Medicine. State Medical Press, Moscow, 1957	142	149
D. A. Epshtein. Fundamentals of Chemical Technology. Academy of Pedagogical Sciences Press, Moscow, 1957	144	150
N. I. Putokhin. Organic Chemistry. State Agricultural Literature Press, Moscow, 1956	146	151

JOURNAL OF APPLIED CHEMISTRY OF THE USSR

Volume 31, Number 2 February 1958

CONTENTS

	PAGE	RUSS. PAGE
Preparation of Cerium Monosulfide. G. V. Samsonov, N. M. Popova, and L. I. Tikhomirova	149	153
Investigation of the Calcination of Technical Sodium Bicarbonate. E. M. Mitkevich	153	158
Partial Vapor Pressures of Sulfuric Acid and Water Over Sulfuric Acid Solutions. A. I. Baranova	161	167
Purification of Exhaust Gases of the Tower Sulfuric Acid System in Equipment of the Venturi-Tube Type. M. L. Varlamov, G. A. Manakin, and Ia. I. Starosel'skii	172	178
Scrubbing Absorption of Carbon Dioxide in Potassium Carbonate Solution. I. G. Plit	180	186
Intensified Removal of Hydrogen Sulfide from Coke-Oven Gas in Rotary High-Speed Absorbers. S. N. Ganz and M. A. Lokshin	185	191
Thermal Decomposition of Silver Oxalate. D. Trandafelov	191	198
Methods of Chemical Beneficiation and Conversion of Nonbeneficiating Refuse Nickel Ores (Tailings). D. P. Bogatskii and G. G. Urazov	196	203
Contact Reduction of Metals from Solution. B. V. Drozdov	202	211
Passivation of Zinc Electrodes in Galvanic Cells with Alkaline Electrolytes. Z. Ia. Nikitina	209	218
Behavior of Calcium Oxide–Carbon Electrodes in the Electrolysis of Fused Chlorides. M. V. Smirnov, S. F. Pal'guev, and Iu. N. Krasnov	217	226
Electrochemical Production of Alloys of Nickel with Molybdenum or Tungsten from Aqueous Ammoniacal Electrolytes. T. F. Frantsevich-Zabludovskaia and A. I. Zaiats	224	234
Precipitation of Copper and Bismuth by Metallic Lead from Hydrochloric Acid Electrolytes. P. N. Kovalenko	230	241
Some Peculiarities of the Refining of Lead from Sulfamic Acid Electrolytes. M. A. Loshkarev, V. I. Chernenko, and I. V. Gamali	236	248
Electrodeposition of Manganese with Increased Current Efficiency. I. V. Ianitskii and B. B. Stul'pinas	243	255
The Role of Catalysts in the Oxidation of Paraffin (Wax) to Fatty Acids. N. K. Man'kovskaia and G. I. Moskvina	248	261
The Chemical Composition of Decayed Birch and Aspen Wood. A. G. Rychkova	252	265
Study of the Polymorphism of Cacao Butter. M. Ia. Antokol'skaia	259	273

CONTENTS (continued)

	PAGE	RUSS. PAGE
Production of Film Formers Based on Nondrying and Semidrying Oils. A. A. Ivanova	265	279
Determination of Alkaloids in Ephedra by Distillation in Superheated Steam. M. I. Goriaev, R. N. Sazonova, and I. M. Shabanov	274	289
Polarographic Determination of Benzoyl Peroxide in Certain Plastics. V. D. Bezuglyi and V. N. Dmitrieva	283	298
Brief Communications		
Effect of Small Additions of B_2O_3 on Certain Properties of Ground-Coat Enamels. G. I. Beliaev	289	306
Solubility of Iron Oxides in Ground-Coat Enamels for Steel. K. P. Azarov and V. V. Balandina	292	308
Effects of Solution Temperature and Concentration on the Content of Anions from the Bath Electrolyte in an Anodic Oxide Film, Determined by the Labeled-Atom Method. A. F. Bogoiavlenskii and A. P. Vedernikov	294	310
Decomposition of Glucose in Sulfite Cooking. S. A. Sapotnitskii	296	312
Plastification of Starch Pastes. M. G. Shikher and L. A. Rybkina	300	315
The Properties of Sunflower Pectin in Relation to the Methods of Isolation. T. K. Gaponenkov and Z. I. Protsenko	305	319
Peat Furfural. G. S. D'iachkov and L. K. Chukhlova	309	322
Narcotoline in Opium. A. S. Labenskii	311	323

JOURNAL OF APPLIED CHEMISTRY OF THE USSR

Volume 31, No. 3 March, 1958

CONTENTS

	PAGE	RUSS. PAGE
The Chlorine Method for the Composite Treatment of Silicate Ores of Metals of the Iron Group. D. P. Bogatskii and G. G. Urazov	313	325
The Stability of the Minerals of Portland Cement in Water and Solutions of Sulfuric Acid and Caustic Soda. N. A. Moshchanskii	320	333
The Liberation of Ammonia from Technical Sodium Bicarbonate. E. M. Mitkevich	326	338
The Dissolution of Apatite in Phosphoric Acid Partially Neutralized with Magnesium (in Solutions of the System $MgO-P_2O_5-H_2O$). K. S. Krasnov	333	345
Kinetics of the Absorption of Nitrogen Oxides in Concentrated Nitric Acid. V. I. Atroshchenko and V. M. Kaut	340	352
Adsorption of Nitrogen Oxides by Aluminosilicate Sorbent. S. N. Ganz	349	360
Study of the Separation of Carbon and Oxygen Isotopes by Fractional Distillation of Carbon Monoxide, Methane, and Molecular Oxygen. G. G. Deviatykh, A. D. Zorin, and N. I. Nikolaev	356	368
Investigation of the Fundamental Performance Characteristics of the Injection Extractor and Comparative Efficiency of Extractors. V. V. Kafarov and S. A. Zhukovskaia	364	376
Effect of Gas Velocity on Mass Transfer in Absorption Under Bubbling and Foam Conditions. M. E. Pozin and B. A. Kopylev	375	387
Structure and Properties of Copper–Graphite Mixtures. P. S. Livshits	381	394
Influence of Certain Organic Substances on the Palladium-Plating Process. V. V. Ostroumov	389	402
Investigation of Cathode Processes in the Simultaneous Deposition of Lead and Copper. B. I. Skirstymonskaia	395	408
Effect of Surface-Active Substances on the Mechanical Properties of Electrolytic Deposits. N. P. Fedot'ev and Iu. M. Pozin	406	419
Internal Stresses in Cathodic Nickel Deposits. A. L. Rotinian and E. S. Kosich	411	424
Use of Soluble Nickel–Molybdenum and Nickel Anodes for the Production of Nickel–Molybdenum Alloys from Alkaline Electrolytes. D. P. Zosimovich and N. F. Bogatova	416	429
Behavior of the Nitrate Ion at a Pt Anode. N. P. Fedot'ev and V. N. Varypaev	422	434
Fundamentals of the Theory and Practice of the Continuous Oxidation of Short-Chain Normal Paraffins in the Liquid Phase. V. K. Tsyskovskii	427	440

CONTENTS (continued)

	PAGE	RUSS. PAGE
Mechanism of the Reactions Occurring During the Heat Treatment of Urea Under the Pressure of the Gases Formed. S. N. Kazarnovskii and N. I. Malkina	439	452
A Study of the Xanthation of Cellulose Preparations. A. A. Konkin and Iu. A. Romashevskaia	445	459
Characteristics of the Fusel Oil Formed in the Fermentation of Cotton-Hull Hydrolyzates. Z. N. Nazarova	451	465
Oxidation of Monoolefinic Hydrocarbons. Ia. B. Chertkov	457	471
Synthesis of Methylpentadiene Based on Propylene. S. I. Kriukov and M. I. Farberov	462	476
Decomposition of Nitroglycerin at High Temperatures. K. K. Andreev	470	484
Brief Communications		
Production Trial of the Extraction of Gold from Spent Electrolytic Solutions by Means of Ion Exchange. A. B. Davankov, V. M. Laufer and N. E. Razgil'deev	479	494
Study of the Rate of Solution of the Oxide Film on Aluminum. N. P. Fedot'ev and I. Kosha-Shomodi	483	497
Solubility of Chlorine in Benzene. F. F. Krivonos	487	500
Investigation of the Fatty Oil of Silybum Marianum Gaertn. G. V. Pigulevskii and S. B. Rzaeva	492	504
Preparation of Octachloro-1,3-pentadiene. L. M. Kogan, N. M. Burmakin, N. P. Ignatova and N. V. Cherniak	495	507
Distribution of Acetic Acid Between Two Coexisting Phases – Nonaqueous and Aqueous. V. N. Kozlov and B. I. Smolenskii	497	508
A New Method for the Isolation of Levopimaric Acid from Mixtures of Resin Acids. I. I. Bardyshev, Kh. A. Cherches and L. I. Ukhova	502	512
Some Comments on the Paper by V. N. Krylov and A. S. Polubelova: "The Dehydration of Bauxites of Different Origins" (J. Appl. Chem. 29, 5, 698-704, 1956). S. I. Beneslavskii and L. A. Pashkevich	505	514
Organizing Committee of the VIIIth Mendeleev Congress on General and Applied Chemistry	507	516

JOURNAL OF APPLIED CHEMISTRY OF THE USSR

Volume 31, Number 4 April 1958

CONTENTS

	PAGE	RUSS. PAGE
Aleksei Aleksandrovich Vansheidt	509	517
Some Data on the Desorption of a Liquid from the Surface of a Fluidized Layer. Ia. Tsiborovskii and A. Seletskii	511	518
Approximate Calculation Method for Batch-Rectification Columns. Fu Tsziui-fu	518	525
Kinetic Relationships in Absorption by the Bubbling Method. L.A. Mochalova and M.Kh. Kishinevskii	525	533
The Hydraulic Resistance of Grids. I.P. Mukhlenov and E.Ia. Tarat	534	542
The Hydraulic Regimes Which Arise in Sieve and Bubble-Cap Equipment. R.A. Melikian	541	550
Resonance Method for Investigating the Resistance of Concrete to Corrosive Media. V.V. Stol'nikov	549	559
The Problem of Formation of a Semiconducting Film in Lead–Bismuth Glasses During Hydrogen Treatment. N.I. Ananich and L.A. Grechanik	556	566
Anode Overvoltage and Mechanism of Anodic Discharge in the Electrolysis of a Cryolite–Alumina Melt. V.P. Mashovets and A.A. Revazian	560	571
The Effect of a Combined Addition of Glue, β-Naphthol and Antimony on the Electrodeposition of Zinc. A.I. Levin, A.V. Pomosov, E.E. Krymakova and V.I. Falicheva	569	581
Kinetics of the Photochemical Chlorination of Benzene. F.F. Krivonos	577	589
Hydrogenation of Glucose in Presence of Granulated Raney Nickel Catalyst Under Flow Conditions. E.M. Adaskin, N.I. Ziminova, B.L. Lebedev and S.V. Pavlov	582	595
Aging and Thermooxidative Decomposition of Ethylcellulose. O.P. Koz'mina and V.I. Kurliankina	588	601
Isolation of Pure Dextropimaric Acid from P. Silvestris Oleoresin. I.I. Bardyshev, A.G. Sokolov and O.I. Cherniaeva	595	609
Some Peculiarities of the Reaction of Formation of Ethylene Oxide from Ethylene Chlorohydrin. P.V. Zimakov and L.M. Kogan	600	613
Production of β-Chloroethyl Isopropyl, β-Chloroethyl Isoamyl, β-Chloroethyl Hexyl, and β-Chloroisopropyl Isobutyl Ethers from Unsaturated Hydrocarbons. A.K. Seleznev	607	620
Influence of Iron Salts on the Kinetics of the Reaction Between Polyethylene Polyamines and Hydroperoxides, and Use of This Reaction for Initiation of Polymerization. B.A. Dolgoplosk and D.Sh. Korotkina	611	625

CONTENTS (continued)

	PAGE	RUSS. PAGE
Brief Communications		
Minimum Equivalent Packing Height (HTU) in Packed Absorption, Rectification, and Extraction Columns. V.V. Kafarov and Iu.I. Dytnerskii	616	631
Regulation of the Flow of Granular Materials by the Injecting Action of a Gas Stream. A.R. Brun-Tsekhovoi	619	634
Determination of the Softening Temperature of Glass by the Method of Drawing a Horizontal Thread. V.L. Indenbom and V.I. Shelubskii	621	635
The Simultaneous Electrodeposition of Metals. B.I. Skirstymonskaia	624	638
Kinetics of the Liberation of Copper by the Diaphragm Method of Internal Electrolysis. A.K. Zhdanov, V.A. Khadeev and F. Mirzabekov	627	640
Steam-Gas Activation of Anthracite in a Fluidized Layer. K.E. Makhorin and V.M. Chertov	630	643
Changes in the Infrared Absorption Spectra During Vulcanization of Ebonites. A.S. Kuz'minskii and L.V. Borkova	635	648
Varnish Flaws ("Bittiness") in Alkyd Enamels. I.A. Popova and R.D. Zamyslov	640	652
Exchange Properties of "Lignin Acids." I.V. Skrynnik, S.I. Sukhanovskii and M.I. Chudakov	644	655
Study of the Effect of Increased Pressure on the Course of Reactions Between Solid Anhydrides and Amines. M.Kh. Gluzman and D.G. Arlozorov	647	657
Sulfonation of 2- and 4-Nitrophenanthrenequinones. V.I. Sevast'ianov	649	658
Synthesis of 3-Chlorodiphenylamine. S.V. Zhuravlev and A.N. Gritsenko	652	661
Use of Ethylenediamine for the Synthesis of Unsaturated Nitro Compounds of the Aromatic Series. O.M. Lerner	655	663
Improvement of the Method for the Production of Octestrol ("Octofollin"). G.I. Kiprianov and L.M. Kutsenko	658	665
A New Method for the Synthesis of Nitro Ketones. V.V. Perekalin and K. Baier	661	667

JOURNAL OF APPLIED CHEMISTRY OF THE USSR

Volume 21, Number 5 May 1958

CONTENTS

	PAGE	RUSS. PAGE
The Theory of the Soda–Silica Process for the Production of Sodium Tungstate from Scheelite. Ia. E. Vil'nianskii and Z. L. Persits	663	669
The Interaction of Alite and Belite with Quartz in Autoclave Treatment. A. A. Maier and N. S. Manuilova	668	674
Stability of Aqueous Sodium Chlorite Solutions During Evaporation. Sh. S. Shchegol'	673	680
The Production of Metallic Potassium and K-Na Alloy by the Reaction KOH + Na = = NaOH + K. M. I. Kliashtornyi	677	684
The Influence of Mn, P, and Si on the Activity of Aluminum in Liquid Crude (Cast) Iron. V. I. Musikhin, O. A. Esin, and B. M. Lepinskikh	682	689
The Rate of Interaction of Apatite with Sulfuric Acid in the Course of Mixing. M. E. Pozin, G. S. Grigor'ev, B. A. Kopylev and A. D. Sokolova	687	693
Equilibrium in the Reaction $2Br' + Cl_2 \rightleftharpoons Br_2 + 2Cl'$ in the Process for the Production of Bromine from Natural Brines. D. S. Stasinevich	694	701
Calculation of Mass-Transfer Processes. V. V. Kafarov	699	706
Mass Transfer in Distillation in Wetted-Wall Columns. A. P. Nikolaev	704	711
Overvoltage in the Evolution of Hydrogen from Alkaline Solutions. M. D. Zholudev and V. V. Stender	711	719
Electrolytic Deposition of Tin–Nickel Alloy from Chloride–Fluoride Solutions. K. M. Tiutina and N. T. Kudriavtsev	716	723
Gas Formation During Acid Corrosion of Zinc. I. L. Zabolotnyi and A. P. Lizogub	722	730
Investigation of the Corrosion of Zinc in Electrolytes Composed of Sulfuric Acid Carrying Impurities. A. V. Pomosov, E. E. Krymakova and A. I. Levin.	727	734
Influence of Temperature on the Effect Produced by Cathodic and Anodic Polarization of M A2 Alloy in 0.1 N H_2SO_4 + 35 g/l NaCl Solution During Corrosion Cracking. V. V. Romanov and V. V. Dobrolyubov	735	743
The Nitrogenous Bases of Coal Tar – Inhibitors of Steel Corrosion in Acid Pickling Liquors. N. D. Rus'ianova, M. V. Goftman and L. A. Burmistrenko	741	748
Vinyl Compounds of Silicon. M. F. Shostakovskii and D. A. Kochkin	746	754
Emulsion Xanthation. S. N. Danilov. N. S. Sidorova-Tikhomirova and O. M. Kulakova	756	765
Preparation and Investigation of Styrene–Methyl Acrylate Copolymers. A. Ia. Drinberg, B. M. Fundyler and A. M. Frost	761	771
Catalytic Decomposition of Metameric Esters – Ethyl Butyrate and Butyl Acetate. B. A. Bolotov, N. A. Baranova and M. V. Bogdanova	767	778

CONTENTS (continued)

	PAGE	RUSS. PAGE
Investigation of the Saponification of Polyacrylonitrile by Sulfuric Acid. E. A. Sokolova-Vasil'eva, G. I. Kudriavtsev and A. A. Strepikheev	773	785
The Effects of Plasticizers on the Properties of Polyvinyl Chloride. Sh. L. Lel'chuk and V. I. Sedlis	778	790
Brief Communications		
Investigation of the Recovery of Selenium from Alkaline Solutions. O. V. Al'tshuler and F. F. Kharakhorin	786	800
Separation and Analysis of Mixtures of Chlorinated Methane Derivatives by a Chromathermographic Method. D. A. Viakhirev and L. E. Reshetnikova	789	802
Certain Azo Dyes Obtained from 4,4'-Diaminodiphenyl-3,3'-dihydroxyacetic Acid and N-Aryl-3-methyl-5-aminopyrazoles. V. L. Mur and I. F. Mikhailova	793	805
Study of the Reaction of Solid p-Carbomethoxysulfanilyl Chloride with Solid 2-Aminothiazole and its Hydrochloride. M. Kh. Gluzman and I. B. Levitskaia	796	807
Condensation of Xylenols in Presence of Alkaline Catalysts. N. V. Shorygina and G. I. Kurochkina	799	810
Synthesis of Phthalocyanine from Phthalonitrile. V. F. Borodkin	803	813

JOURNAL OF APPLIED CHEMISTRY OF THE USSR

Volume 31, Number 6 June 1958

CONTENTS

	PAGE	RUSS. PAGE
Status of the Production of Phosphate Fertilizers by Acid Treatment of Phosphates, and Immediate Prospects. D. L. Tsyrlin	807	817
Treatment of Technical Alumina and Study of Some of Its Properties for Chromatographic Separation of Inorganic Cations. F. M. Kutsakov	814	824
The Production and Use of Alkali Organosilicon Silicates. V. A. Matveev, G. D. Nessonova, and M. A. Matveev	819	829
Influence of the Composition and Amount of Filler on the Oxidative Roasting of Furnace Charges in Dichromate Production. T. D. Averbukh, M. A. Serebrennikova, and N. D. Maslova	824	835
Theoretical Analysis and Calculations Relating to the Oxidation of Bromide Ions by Chlorine in the Production of Bromine by the Blowing-Out Process. D. S. Stasinevich	833	844
Absorption of Hydrogen Sulfide by Arsenical Soda Solution in a Foam Apparatus M. E. Pozin, B. A. Kopylev, and N. A. Petrova	838	849
Variation of the Density of Pure Nitric Acid with the Temperature. G. L. Antipenko, E. S. Beletskaia, and A. G. Krylova	847	859
Determination of the Evaporability of Oils and Greases. F. K. Volynets	851	863
Hydrocarbons of the Diphenylmethane series as High-Temperature Heat-Transfer Media, and Their Physicochemical Properties. I. G. Matveev, N. I. Gel'perin, K. V. Vil'shau, and R. L. Globus	856	868
Effect of the Amount of Catalyst on Intensification of the Destructive Hydrogenation of Petroleum Residues in the Liquid Phase. Ia. R. Katsobashvili and N. S. Kurkova	862	874
Kinetics of the Oxidative Conversion of Hydrocarbons in the Liquid Phase. B. G. Freidin	869	881
Compatibility and Volatility of Plasticizers, and General Conclusions. Sh. L. Lel'chuk and V. I. Sedlis	875	887
Investigation of the Chemical Composition of Woods Buried in Peat Deposits. E. F. Kondrat'ev and M. I. Kostina	880	892
Hydrogenation of Glucose in Presence of Powdered Raney Nickel Catalyst in Flow Conditions. E. M. Adaskin, B. L. Lebedev, and N. I. Ziminova	886	897
Catalytic Methods for the Production of Methyl Isobutyl Ketone. B. A. Bolotov, B. N. Dolgov, K. P. Katokova, and L. S. Ivanova	892	903

CONTENTS (continued)

	PAGE	RUSS. PAGE
The Peroxides of Vinylacetylene. I. M. Dolgopol'skii and Z. F. Dobler	900	911
The Reaction of Formation of 8-Trichloromethylcaffeine. E. S. Golovchinskaia	907	918
Solvent Extraction of Acetic Acetic Acid From Aqueous Solutions. V. N. Kozlov and B. I. Smolenskii	913	924
Study of the Exchange-Adsorption Properties of Monocarboxycellulose. G. M. Skurikhin and V. I. Iur'ev	920	931
Brief Communications		
The Preparation of Phosphorus Thiotrichloride. N. N. Mel'nikov, Ia. A. Mandel'baum, and V. N. Volkov	926	938
Effect of the Velocity Gradient Along the Autoclave Radius in Laminar Flow of the Pulp on the Yield of Alumina in Alkaline Leaching of Bauxite. A. N. Liapunov and A. E. Montvid	929	941
Effect of Hydrogen-Ion Concentration of the Extraction of Colloids from Solutions with the Aid of Foam. R. V. Shveikina and S. G. Mokrushin	933	943
Calculation of Electrochemical Protection with Field Interaction in the Electrolyte Taken into Account. V. V. Gerasimov	936	946
Nature of the Influence of the pH of the Medium on the Corrosion of Iron in Presence of Inhibitors. A. T. Petrenko and L. I. Antropov	940	949
Reactions of Dialkylsilane Diols with Diisocyanates. M. F. Shostakovskii, V. N. Kotrelev, D. A. Kochkin, S. P. Kalinina, and V. V. Borisenko	944	952
Preparation of 1,5-Naphthylenediamine. S. S. Pen'kovskii and S. S. Kuznetsova	948	955
International Congress of Industrial Chemistry in Athens	951	957
IVth Conference on the Chemistry and Technology of Silicates of the Hungarian Academy of Sciences and the Scientific-Technical Society of Building Materials	956	961
Book Reviews		
Silicate Technology (2nd Collection of Research Papers) edited by Prof. Rudoff Barta. Prague, 1955 (285 pages)	958	964
Marschal Sittig, Sodium, its Manufacture, Properties and Uses. American Chemical Society Monograph. New York, Reinhold Publishing Corp., 1956, (529 pages)	961	966
Brief Handbook of Physicochemical Data. Edited by K. P. Mischenko and A. A. Ravdel'. (Goskhimizdat, Leningrad, 1957). 2nd edition augmented	963	967

JOURNAL OF APPLIED CHEMISTRY OF THE USSR

Volume 31, Number 7 July 1958

CONTENTS

	PAGE	RUSS. PAGE
Carbonation Process for Production of Cryolite from Fluosilicate Gases. S. I. Vol'fkovich, T. I. Sokolova, Z. G. Kulagina-Smirnova and K. P. Kniazeva	965	969
Effect of the Conditions of Formation of Calcium Sulfate Hemihydrate on the Kinetics of Its Conversion into the Dihydrate in Phosphoric Acid Solutions. E. V. Khamskii and M. L. Chepelevetskii	972	976
Reaction of Nitric Oxide with Hydrogen Sulfide on Sulfide Catalysts. M. P. Korsh and F. P. Ivanovskii	976	980
Reduction of Zinc Oxide by Carbon. Iu. O. Esin and P. V. Gel'd	982	986
Conversion of Calcium Sulfate Hemihydrate into the Dihydrate in Spent Liquors of the Solvay Process. N. N. Drozin and N. I. Volodazhenko	990	995
Sorptional and Catalytic Properties of Some Natural Formations. M. I. Kuadzhe	996	1001
Absorption of Ammonia by Cuprammonium Solution in a Foam Apparatus. M. E. Pozin, B. A. Kopylev and N. A. Petrova	1001	1007
Mass Transfer in Bubbling Absorption. L. A. Mochalova and M. Kh. Kishinevskii	1007	1013
Mass-Transfer Coefficients in the Liquid Phase. G. N. Gasiuk, A. G. Bol'shakov, A. V. Kortnev and P. Ia. Krainii	1013	1019
Extraction from Solutions by Condensing Solvent Vapors. N. I. Gel'perin, N. G. Krokhin and E. N. Kiseleva	1020	1026
Influence of Impurities and Additions in Electrolysis of Sodium Zincate Solutions. M. D. Zholudev and V. V. Stender	1030	1036
Concentration Changes Near the Electrodes in Iron Electrolytes, and Characteristics of the Cathodic Liberation of Iron. A. I. Levin and S. A. Pushkareva	1034	1040
Conditions of the Contact Reduction of a Metal from Solution. B. V. Drozdov	1041	1048
The Anode Process in the Electrodeposition of Tin–Nickel Alloy from a Chloride–Fluoride Electrolyte. K. M. Tiutina and N. T. Kudriavtsev	1048	1054
The Use of Asymmetrical Alternating Current in the Electrodeposition of Metals. A. M. Ozerov and I. N. Eremina	1052	1058
Electrolysis of Aqueous Sodium Thiostannate Solutions. N. N. Sevriukov	1060	1067
Sulfonic Ion-Exchange Resins Based on Phenol–Formaldehyde Novolaks and Formaldehyde. A. A. Vasil'ev and A. A. Vansheidt	1067	1075
Preparation and Investigation of Styrene–Methacrylic Acid Copolymers. A. Ia. Drinberg, B. M. Fundyler and A. M. Frost	1071	1080

CONTENTS (continued)

	PAGE	RUSS. PAGE
Conditions for the Production of Thermostable Ethylcellulose. S. A. Glikman, O. G. Efremova, I. K. Kosyreva and A. I. Somova	1077	1087
Copolymerization of Cyclopentadiene with Vegetable Oils. G. L. Iukhnovskii, N. V. Prilutskaia and A. V. Chernobai	1081	1091
Brief Communications		
Thermal Decomposition of Ammonium Nitrate. B. Iu. Rozman, E. A. Sivolodskii, Iu. A. Davydov and A. N. Bystrov	1089	1101
Influence of Aluminum on the Wetting of Graphite by Cryolite–Alumina Melts. L. N. Antipin, S. F. Vazhenin and Ia. A. Sal'nikov	1091	1103
Thermodynamic Analysis of Experimental Data on the Production of Sodium Carbonate from Sodium Sulfate. A. I. Gorbanev	1094	1105
Effect of Temperature on the Kinetics of Extraction of Colloids by Foam. R. V. Shveikina and S. G. Mokrushin	1099	1109
Calculation of the Current Given Off by a Protecting Anode. V. V. Gerasimov	1102	1111
A Continuous Process for the Condensation of Chloral with Chlorobenzene. S. G. Ryklis and S. M. Shein	1106	1114
Aging of Some Plasticized Polyvinyl Chloride Compositions. V. A. Voskresenskii	1110	1118
Resin Acids of the Oleoresin from the Crimean Pine (Pinus pallasiana Lamb.). I. I. Bardyshev and Kh. A. Cherches	1114	1122
Presence of Ether Groups in Heavy Tar from Shale. E. I. Kazakov and E. Kh. Liiv	1117	1125
Book Review		
A. K. Vardenburg. Plastics in the Electrical Industry. Gosenergoizdat, Moscow, 1957	1119	1127

JOURNAL OF APPLIED CHEMISTRY

Vol. 31, No. 8 August, 1958

CONTENTS

	PAGE	RUSS. PAGE
The Present State and Development Prospects of the Production of Dilute Nitric Acid. M. A. Miniovich	1121	1129
Decomposition of Zinc and Cobalt Sulfates in a Current of Sulfur Dioxide and Air. V. V. Pechkovskii.	1130	1139
Mechanism of the Decomposition of Nephelines by Alkaline Solutions. V. D. Ponomarev and V. S. Sazhin	1134	1143
Acceleration of Porcelain Production. A. I. Avgustinik and V. M. Loginov	1140	1150
Study of the Burning Out of Chromium in the Production of Synthetic Ruby. G. A. Mukhin, N. I. Maliugina, and T. S. Uspenskaia	1150	1160
Effect of the Composition of Glasses on the Influence of Me_2O and Al_2O_3 Oxides on Their Electrical Conductivity. L. A. Grechanik	1154	1164
Oxygen and Nitrogen in Metallization Pseudoalloys. L. V. Krasnichenko and M. G. Ross	1160	1170
"Shavingless" Dissolution of Alloys. A. G. Loshkarev	1165	1175
The Occurrence of Hydrogen Embrittlement of Steel in Aqueous Solutions of Hydrogen Sulfide. S. A. Balezin and I. V. Nikol'skii	1171	1181
Hydrogen Embrittlement of Steel in Cathodic Treatment. M. A. Figel'man and A. V. Shreider	1175	1184
Influence of the pH of the Medium and the Temperature on the Proportions of Active Oxidizing Agents in Hypochlorite Solutions in Chlorination and Bleaching Processes. I. E. Flis	1183	1194
Colloidal Stability of Lithium Lubricants and the Influence of Their Dispersion Media on it. V. V. Sinitsyn, K. I. Klimov, and E. V. Aleeva	1191	1202
Effect of pH on the Oxidation–Reduction Potential of a Solution Containing Ferric and Ferrous Ions. O. N. Lapteva	1199	1210
Determination of the Interphase Area in Emulsions. A. V. Ianishevskii and I. S. Pavlushenko	1205	1215
Liquid–Vapor Equilibrium in the Binary Mixtures Ethyl Alcohol–Isopropyl Alcohol and Carbon Disulfide–Methyl Iodide. G. A. Gaziev, Ia. D. Zel'venskii, and V. A. Shalygin	1210	1220
The Use of Dienols as "Hardening" Accelerators for Unsaturated Polyester Resins. R. K. Gavurina, A. V. Mitrofanova, and N. S. Dmitrieva	1217	1227

CONTENTS (continued)

	PAGE	RUSS. PAGE
Polymerization of Vinylacetylene. I. M. Dolgopol'skii, Z. F. Dobler, A. P. Iashina, and P. N. Trofimova	1224	1234
Preparation of 8-(Trichloromethyl)-theobromine and Theobromine. E. S. Golovchinskaia, V. M. Fedosova, and A. A. Cherkasova	1230	1241
Mechanical Properties of Casein Films. V. I. Eliseeva and E. V. Kuz'mina	1234	1245
Coke Formation in Catalytic Destructive Hydrogenation of Petroleums and Petroleum Residues. Ia. R. Katsobashvili and N. V. Sidorova	1240	1252
Investigation of the Composition of Phenols from the Thermal Liquefaction of Peat. M. K. D'iakova and N. A. Davtian	1246	1259
Brief Communications		
Thermodynamic Properties of Liquid Alloys in the System Sodium–Lead. A. G. Morachevskii	1252	1266
Experimental Investigation of the Gas Reduction of Na_2SO_4 to Na_2CO_3 in the Shaft Furnace. A. I. Gorbanev	1256	1270
Synthesis of Cation-Exchange Resins by Sulfonation of Phenol–Formaldehyde Novolacs at Elevated Temperatures. A. A. Vasil'ev and A. A. Vansheidt	1260	1273
Neoabietic Acid – A Primary Acid of the Oleoresin of Picea Excelsa Link. I. L. Bardyshev and Kh. A. Cherches	1263	1276
Determination of Cyclohexanone in Presence of Other Ketones. A. S. Maslennikov	1265	1277

JOURNAL OF APPLIED CHEMISTRY OF THE USSR

Volume 31, Number 9 September, 1958

CONTENTS

	PAGE	RUSS. PAGE
Comparative Reduction of Tricalcium Phosphate by Gaseous Reducing Agents – Hydrogen, Carbon Monoxide, and Methane – and by Solid Carbon. N. N. Postnikov	1269	1281
Direct Reduction of Chromic Oxide. Iu. O. Esin and P. V. Gel'd	1273	1285
Production of Borides of Alkaline-Earth Metals by Reduction of the Oxides by Carbon. L. Ia. Markovskii and N. V. Vekshina	1280	1293
Phase Diagram of the System: Iron Compound – Aqueous Medium, In Redox Potential – pH Coordinates. O. N. Lapteva	1286	1300
Reduction of a Layer of Copper Oxide Under High Pressure of the Gaseous Phase. A. S. Tumarev and L. A. Paniushin	1290	1304
Solubility in the System: Calcium Chloride – Potassium Dichromate – Water. Z. I. Konopkina	1296	1310
Study of the Structure and Sorptional Properties of Charcoals Oxidized by Hydrogen Peroxide. I. A. Kuzin, T. G. Plachenov, and V. P. Taushkanov	1304	1318
Absorption of SO_2 and CS_2 by Certain Hydrocarbons of the Diphenylmethane Series. N. I. Gel'perin, I. G. Matveev, and K. V. Vil'shau	1309	1323
Kinetics of the Absorption of Water Vapor by Sulfuric Acid Under Turbulent (Foam) Conditions. M. E. Pozin and E. Ia. Tarat	1318	1332
Kinetics of Heat and Mass Transfer in a Foam Layer. I. P. Mukhlenov	1328	1342
Rotation Speeds of Stirrers in the Stirring of Two Mutually Insoluble Liquids. I. S. Pavlushenko and A. V. Ianishevskii	1334	1348
Tests of Experimental Storage Cells with Grids Made From Alloys Containing Impurities . V. P. Mashovets	1341	1355
Influence of Aluminum on the Anode Effect in the Electrolysis of Cryolite – Alumina Melts. A. I. Beliaev and L. A. Firsanova	1347	1361
Corrosion of Stainless Steels at Points of Contact with Nonmetallic Materials. I. B. Ulanovskii and Iu. M. Korovin	1352	1366
Mechanism of the Chemical Processes Taking Place in Cyaniding Baths. V. A. Shushunov	1356	1371
Kinetics of the Evaporation of Petroleum Oils. F. K. Volynets	1362	1376
Influence of Sulfur Compounds on the Service Properties of Hydrocarbon Fuels . Ia. B. Chertkov and V. N. Zrelov	1369	1384
Water-Repellent Impregnation of Cotton Fabrics by Organosilicon Compounds . N. V. Kalugin and M. G. Voronkov	1374	1390

CONTENTS (continued)

	PAGE	RUSS. PAGE
Effect of Plasticizer Efficiency on the Viscosity of Polyvinyl Chloride Compositions. Sh. L. Lel'chuk and V. I. Sedlis	1380	1397
Polymerization of Divinylacetylene. I. M. Dolgopol'skii, A. L. Klebanskii, and D. M. Krasinskaia	1385	1403
Thermal Liquefaction of Cotton-Hull Lignin. V. G. Panasiuk	1390	1409
Synthesis of Allyl Alcohol by Isomerization of Propylene Oxide. P. G. Sergeev, L. M. Bukreeva, and A. G. Polkovnikova	1396	1415
Preparation of 2-Ethylhexanol-1 by Condensation of n-Butanol. A. I. Kutsenko and V. I. Liubomilov	1400	1419
Brief Communications		
Investigation of the Conditions for the Formation of Lanthanum Carbide. M. S. Koval'chenko, V. S. Neshpor, and G. V. Samsonov	1406	1427
Radiometric Determination of the Surface Areas of Disperse and Porous Substances. M. F. Skalozubov and V. I. Matsokin	1409	1429
Use of Radioactive Isotopes in Studies of the Conditions of Formation of Electrolytic Alloys. S. M. Kochergin and G. R. Pobedimskii	1413	1432
Synthesis and Some Transformations of Organic Tin and Silicon Compounds. M. F. Shostakovskii, V. N. Kotrelev, D. A. Kochkin, G. I. Kuznetsova, S. P. Kalinina, and V. V. Borisenko.	1416	1434
Production of Sulfonated Novolac Ion-Exchange Resins with Increased Exchange Capacity. A. A. Vasil'ev and A. A. Vansheidt	1419	1436
Reaction of Ethylene Chlorohydrin with Magnesium Compounds of a Basic Character. L. M. Kogan.	1421	1437
Reaction of Salicylaldehyde with Acetic Anhydride in Presence of BF_3. K. A. Bogdanov	1425	1441
Book Review		
N. N. Nekrasov. Economics of the Chemical Industry. Soviet Science Press, Moscow, 1957, 396 pp., 7500 copies	1427	1442
Letter to the Editor	1429	1444

JOURNAL OF APPLIED CHEMISTRY OF THE USSR

Volume 31, Number 10 October 1958

CONTENTS

	PAGE	RUSS. PAGE
Production of a New Sulfate Fertilizer, Kaluszite, from Native Kainites. G. P. Aleksandrov and V. S. Tikhonova	1431	1445
Composition and Properties of Defluorinated Phosphates. N. N. Postnikov, M. G. Frenkel', B. B. Evzlina, A. I. Smirnov, and V. I. Plotnikova	1438	1453
Contraction in the Hardening of Portland Cement with Added Chlorides at Positive and Negative Temperatures. V. V. Nekrasov and G. A. Shisho	1445	1460
Extraction of Valuable Components from Flotation Pyrite by Sulfating Roasting. V. V. Pechkovskii, S. A. Amirova, and V. V. Parkacheva	1451	1466
Investigation of the Rate of Absorption of Hydrogen Sulfide by Arsenical Soda Liquors. V. V. Ipat'ev, V. I. Tikhomirov, and N. F. Soboleva	1456	1472
Investigation of the Rate of Absorption of Hydrogen Sulfide by Arsenical Soda Liquors. M. I. Gerber, V. P. Teodorovich, and A. D. Shusharina	1462	1478
Influence of the Specific Surface of the Filler on the Oxidation of Chromite Charges. M. V. Kireeva	1468	1484
Determination of the Precipitation pH, and Calculation of the Solubility Product of Antimony Hydroxide, by a Polarographic Method. P. N. Kovalenko	1472	1488
"Shavingless" Dissolution of Magnesium, Zinc, Tin, and Iron in Hydrochloric Acid. A. G. Loshkarev	1477	1493
Use of the Results of Electrocapillary Determinations in Studies of Acid-Corrosion Inhibitors for Metals. L. I. Antropov, V. P. Grigor'ev, and A. T. Petrenko	1482	1497
Anodic Polarization of Zinc in Sulfuric Acid. G. P. Maitak	1488	1504
Electrolytic Deposition of Silver with Periodic Reversal of Direct Current. N. A. Marchenko, I. N. Lekhovitskii, and A. N. Bulanova	1496	1511
Deposition of Copper from Acid Electrolytes by Means of Periodically Reversed Current. V. V. Ostroumov and I. F. Plotnikova	1504	1520
The Chemical Nature of Sulfonated-Novolac Ion-Exchange Resins. A. A. Vasil'ev and A. A. Vansheidt	1510	1527
Synthesis of Fluoroprene over a Solid Catalyst. I. M. Dolgopol'skii, I. M. Dobromil'skaia, and B. A. Byzov	1517	1534
Investigation of the By-Product Formed in the Nitration of Toluene. E. Iu. Orlova and S. S. Romanova	1547	1541
Luminescence Method for Determination of Gossypol. S. N. Vil'kova and A. L. Markman	1530	1548

CONTENTS (continued)

	PAGE	RUSS. PAGE
Separation of Tannins Into Fractions by Means of Adsorbents. V. M. Glezin	1535	1554
Investigation of the "Recrystallization" Effect in Cellulose. I. I. Korol'kov, V. I. Sharkov, and A. V. Krupnova	1541	1560
Study of the Extraction of Vegetable Oils from Oil Cakes. V. V. Beloborodov	1546	1565
Study of the Pentose Hydrolysis of Corncob Cores. B. M. Nakhmanovich	1554	1572
Conversions of β-Chloro Ethers in Presence of Metals. V. I. Isaguliants and I. S. Maksimova	1559	1578
The Principles of Hexachlorocyclopentadiene Technology. L. M. Kogan and N. M. Burmakin	1567	1585
Large Unit for Hydrogen Fluoride Polymerization of Terpenes from Oleoresin and Stump Turpentines, "Benzene Head" Cyclopentadiene, and Unsaturated Compounds from Crude Benzene. V. G. Pliusnin, E. P. Babin, and S. I. Chertkova	1574	1592
Brief Communications		
Preparation of Magnesium Peroxide. I. I. Vol'nov and E. I. Latysheva	1579	1597
The Use of Dolomite as an Opacifier. I. Azimov and A. I. Avgustinik	1582	1599
Phosphate Enamels. K. P. Azarov and E. M. Chistova	1585	1602
Comparison of Different Methods for the Thermal Decomposition of Hydrolytic Lignin. V. G. Panasiuk	1589	1605
The Dissolution of Iron from Tin Plate in Various Fluxes. A. I. Vitkin	1592	1607
Liquid – Vapor Equilibrium in the System Acetaldehyde – Methyl Alcohol at Atmospheric Pressure. R. P. Kirsanova and S. Sh. Byk	1595	1610
Conference on Modern Investigation Methods in the Field of Silicates and Construction Materials. P. P. Budnikov and O. P. Mchedlov-Petrosian	1598	1612
Editorial Note	1601	1614
Book Review		
Handling and Uses of the Alkali Metals. Advances in Chemistry Series, No. 19. Washington, American Chemical Society, 1957, 177 p.	1602	1615

JOURNAL OF APPLIED CHEMISTRY OF THE USSR

Volume 31, Number 11 November 1958

CONTENTS

	PAGE	RUSS. PAGE
Chemical "Aging" of Precipitated Basic Nickel Carbonate, and the Mechanism of Sodium Carbonate Utilization in the Precipitation Process. I. M. Vasserman and Kh. Z. Brainina	1605	1617
Investigation of the Rate of Absorption of Hydrogen Sulfide by Arsenical Soda Solutions. M. I. Gerber, V. P. Teodorovich, and A. D. Shusharina	1612	1624
Influence of Various Factors on the Structure of Surface Films on Silicate Glasses. L. S. Iastrebova and V. S. Molchanov	1615	1628
Applications of the Theory of Similarity to Certain Processes in Chemical Technology. S. Bretsznajder	1623	1636
Kinetics of Heat and Mass Transfer in a Foam Layer. I. P. Mukhlenov and E. S. Tumarkina.	1635	1647
Laboratory Column for Microfractionation. A. I. Levin	1643	1655
Investigation of Bright Nickel-Plating Baths. T. A. Mechkovskaia	1649	1661
Influence of Chloride-Ion Admixtures on the Deposition of Copper by Periodically-Reversed Current. V. V. Ostroumov and I. F. Plotnikova	1655	1668
Mechanism of Alkaline Surface Oxidation of Steel. A. V. Shreider and A. G. Arakelov	1660	1673
Kinetics of the Gas-Phase Corrosion of EI-437B Alloy in Air and in Nitrogen – Hydrogen Mixture. I. A. Makolkin, N. P. Petrov, and V. F. Faiman.	1665	1678
Synthesis of Copolymers of Vinyl Acetate with Crotonic Acid and its Derivatives. S. N. Ushakov and E. M. Lavrent'eva.	1673	1686
Sulfonic Ion-Exchange Resins Based on Polystyrene and Formaldehyde. A. A. Vasil'ev and A. A. Vansheidt	1678	1692
Study of the Chemical Structure of SKB Sodium Divinyl Rubber (Made by the Rod Process). A. I. Iakubchik, S. K. Zykova, and S. P. Goncharuk	1683	1697
Component Ratio in the Synthesis of Vinyl Acetate by Heterogeneous Catalysis. I. A. Arbuzova, S. N. Ushakov, and E. N. Rostovskii	1691	1704
Herbicides from Phenols in Tar Obtained by Pyrolysis of Wood. V. Kovalev and D. Tishchenko	1695	1708
Hydrofluorination of Vinylacetylene with a Suspended Catalyst. I. I. Dolgopol'skii, I. M. Dobromil'skaia, and B. A. Byzov.	1702	1716
Influence of Used Catalyst on the Acidity Increase of Hydrogenated Fat. V. P. Golendeev, K. G. Bogareva, E. I. Bobkova, and O. N. Dobrynina	1708	1722

CONTENTS (continued)

	PAGE	RUSS. PAGE
Upgrading of Straight-Run Gasolines by Low-Temperature Dehydrogenation Over Platinized Carbon. N. I. Shuikin, Kh. M. Minachev, S. S. Novikov, N. F. Kononov, and I. L. Garanin.	1717	1732
Brief Communications		
A New Cooling Brine for Condensation of Nitrogen Oxides from Nitrous Gases. M. A. Miniovich, A. L. Shneerson, and V. A. Klevke	1724	1739
Aluminate – Borate Anomaly of the Optical Properties of Silicate Glasses. E. I. Galant and A. A. Appen.	1727	1741
Influence of Frit Crystallization on the Properties of Ground-Coat Enamel. G. N. Beliaev and N. F. Smakota.	1730	1744
Investigation of the Reaction Products of Certain Organosilicon Compounds with Aqueous Alkaline Solutions of Aluminates, Stannates, and Plumbites by Means of Infrared Absorption Spectroscopy. A. P. Kreshkov, Iu. Ia. Mikhailenko, L. V. Myshliaeva, and L. M. Khananashvili.	1733	1746
Electrical Conductivity of the System NaOH – Na_2CO_3 – NaCl. A. F. Alabyshev, M. F. Lantratov, and L. I. Sokolova.	1737	1749
Electrochemical Polishing of Zinc in Sulfuric Acid. G. P. Maitak	1741	1752
Electrolysis with a Mercury Cathode Flowing Over a Vertical Metallic Surface. G. I. Volkov and E. I. Kus'kina	1744	1755
Preparation of Ethylene Glycol Diacetate in Presence of Cation-Exchange Resins. N. S. Rabovskaia and V. N. Kucherovskaia	1747	1757
Binary Compounds of Glucose with Mineral Salts. V. I. Sharkov and V. Guzhavina	1749	1759
Thermooxidative Decomposition of Benzylcellulose. O. P. Koz'mina and V. I. Kurliankina	1752	1761
Study of the Composition of the Turpentine and the Properties of Rosin from the Oleoresin of the Sudak Pine (Pinus Pithyusa Var. Stankewiczii Suk., Pinus Stankewiczii Fom.) I. I. Bardyshev and L. V. Roman	1754	1762
Preparation of Toluene Concentrates from Petroleum Fractions by Low-Temperature Dehydrogenation Over Platinized Carbon. N. I. Shuikin, Kh. M. Minachev, I. L. Garanin, S. S. Novikov, and N. F. Kononov	1757	1765
"High Polymers" – a New Journal of the Academy of Sciences, USSR	1760	1768

JOURNAL OF APPLIED CHEMISTRY OF THE USSR

Volume 31, Number 12 December 1958

CONTENTS

	PAGE	RUSS. PAGE
Great New Expansion of Industrial Chemistry. V. S. Sominskii	1761	1769
Georgii Vasil'evich Pigulevskii (on his 70th birthday)	1771	1780
Interaction of Sulfur Dioxide with Calcium Oxide and Carbonate. A. N. Ketov and V. V. Pechkovskii	1774	1783
Dependence of the Carbonation Process on the Partial Pressure of Carbon Dioxide in the Incoming Gas and on the Temperature. G. N. Gasiuk, P. Ia. Krainii, A. G. Bol'shakov, and A. V. Kortnev	1778	1787
Effect of Ferric Oxide on the Properties of Borate and Boron-Free Ground Coat Enamels. G. L. Beliaev and N. F. Smakota	1783	1792
Interaction of Calcium Zirconate with B_2O_3 Mineralizer. A. K. Kuznetsov	1790	1799
Role of the Phase Transition NH_4NO_3 (IV) $\rightleftharpoons NH_4NO_3$ (III) in the Caking of Ammonium Nitrate. B. V. Erofeev and N. L. Mitskevich	1796	1805
Analysis of Diffusional Processes on the Basis of Developed Free Turbulence. V. V. Kafarov and V. L. Trofimov	1800	1809
Investigation of Steam Distillation. E. K. Siirde and P. G. Romankov	1807	1817
Anodic Behavior of Alloys of the Copper – Zinc System in 0.1 N Potassium Chloride Solution. V. V. Skorcheletti, L. A. Stepanov, and E. P. Kuksenko	1813	1823
Chemical and Mechanical Destruction of Graphite Anodes under Various conditions of Hydroxyl Ion (Water) Discharge. B. M. Bulygin	1821	1832
Desulfurization of Steel in an Induction Furnace by Means of Direct Current. O. A. Esin, S. I. Popel', S. G. Bratchikov, V. N. Razumov, and I. M. Plotnikov	1826	1837
Effect of Dilution of Chlorine with Nitrogen on the Corrosion of Metals at High Temperatures. Kh. L. Tseitlin and V. A. Strunkin	1832	1843
Corrosion of Iron and Zinc in 1 N H_2SO_4. L. I. Antropov and A. T. Petrenko	1839	1849
Electrochemical Method for Production of Sodium Formate from Carbon Dioxide and Sodium Amalgam. P. S. Chechel' and L. I. Antropov	1846	1856
Properties of Low-Substituted Cellulose Nitrate Esters. G. A. Petropavlovskii and N. I. Nikitin	1851	1862
Oxidation of Dimethylacetylenyl Carbinol by Cupric Chloride in Ammonia Solution. A. L. Klebanskii, I. V. Grachev, and O. M. Kuznetsova	1858	1869
Demethylation of Methylphenols. D. Tishchenko and S. Sheina	1864	1876

CONTENTS (continued)

	PAGE	RUSS. PAGE
Synthesis of β-Chloro Ethers from Unsaturated Hydrocarbons by the Vapor-Phase Method. A. K. Seleznev	1868	1880
Effect of Caustic Soda and Manganese and Cobalt Salts on the Oxidation of Isopropylbenzene to the Hydroperoxide. B. L. Moldavskii and L. L. Belostotskaia	1875	1885
Brief Communications		
Investigationof the Decarburization rate of 30 KhMA Steel Pipes in a Hydrogen Medium. V. V. Ipat'ev, O. P. Merkulova, and V. P. Teodorovich	1880	1891
Decarburization of Carbon Steels by Hydrogen at High Temperatures and Pressures. S. L. Skop, V. P. Teodorovich, and V. V. Ipat'ev	1884	1894
Soluble Poly-p-Xylylene. A. A. Vansheidt, E. P. Mel'nikova, L. V. Kukhareva, and M. G. Krakoviak	1888	1898
Some Reactions of Acid Dextrin Sulfates. G. Ia. Liandzberg	1891	1900
Preparation of Furfuryl Alcohol. A. P. Salchinkin and L. B. Lapkova	1894	1902
Author Index for Vol. 31, 1958	1897	
Tables of Contents for Vol. 31, 1958	1913	